



RESEARCH
PROGRAM ON
Dryland Systems



2015 Dryland Systems

List of Publications and Research Outputs

April 2015

*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

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Table of Contents

April 2015.....	1
Table 1. Summary of all ISI publications	1
Table 2. Summary of Non-ISI Publications	1
Bioversity International.....	3
ISI Journal Articles (4)	3
Non-ISI/SCOPUS Journal Articles and Theses (1)	3
Technical Reports and Working Papers (16).....	4
Data sets (2).....	5
Other publications (14).....	5
CIAT.....	7
ISI Journal Articles (1)	7
Technical Reports and Working Papers (7).....	7
Proceedings (2)	8
Other publications (12).....	8
CIP	10
ISI Journal Articles (1)	10
Non-ISI/SCOPUS Journal Articles and Theses (4)	10
Technical Reports and Working Papers (6).....	10
Datasets (2).....	11
Other publications (8)	11
ICRAF	13
ISI Journal Articles (7)	13
Journal Articles not in ISI but in Elsevier SCOPUS (2).....	14
Non-ISI/SCOPUS Journal Articles and Theses (4)	14
Technical Reports and Working Papers (27).....	14
Data sets (5).....	17
Other publications (16).....	17
IWMI.....	19
ISI Journal Articles (1)	19
Book Chapters (1)	19
Non-ISI/SCOPUS Journal Articles and Theses (1)	19
Technical Reports and Working Papers (32).....	19
Data sets (2).....	22
Other publications (9)	22
ILRI.....	24
ISI Journal Articles (4)	24
Journal Articles not in ISI but in Elsevier SCOPUS (0).....	24
Non-ISI/SCOPUS Journal Articles and Theses (3)	25
Technical Reports and Working Papers (19).....	25
Proceedings (7)	26
Other publications (22).....	27
ICRISAT	31
ISI Journal Articles (34).....	31
Journal Articles not in ISI but in Elsevier SCOPUS (4)	34
Book Chapters (8)	35
Non-ISI Journal Articles and Theses (11).....	36
Technical Reports and Working Papers (6)	37
Proceedings (14).....	38

Data sets (8).....	39
Other publications (18).....	40
ICARDA.....	42
ISI Journal Articles (29).....	42
Books (3)	45
Journal Articles not in ISI but in Elsevier SCOPUS (5).....	46
Book Chapters (8).....	46
Non-ISI/SCOPUS Journal Articles and Theses (17).....	48
Technical Reports and Working Papers (22).....	50
Proceedings (33).....	52
Datasets (26)	56
Other publications (29).....	58
PMU	62
ISI Journal Articles (8)	62
Books (5)	63
Journal Articles not in ISI but in Elsevier SCOPUS (1).....	63
Non-ISI/SCOPUS Journal Articles and Theses (1).....	63
Technical Reports and Working Papers (6).....	64
Proceedings (6)	64
Datasets (19)	65
Other publications (14).....	67
List of 2016 Publications and research outputs.....	69
CIAT.....	69
ISI Journal Articles (1)	69
Other publications (1)	69
ICRAF	69
ISI Journal Articles (2)	69
Technical Reports and Working Papers (1).....	69
Other publications (2)	69
IWMI.....	70
ISI and SCOPUS Journal Articles (2).....	70
ILRI.....	70
ISI and SCOPUS Journal Articles (1).....	70
Journal Articles not in ISI but in Elsevier SCOPUS (2).....	70
Technical Reports and Working Papers (10).....	70
ICRISAT	72
ISI and SCOPUS Journal Articles (2).....	72
ICARDA.....	72
ISI and SCOPUS Journal Articles (1).....	73
Book Chapters (1)	73
Other Publications (1)	73
PMU	73
Book Chapters (3)	73

List of 2015 Publications and Research Outputs

In 2015, the CGIAR Research Program on Dryland Systems produced 139 journal articles (89 indexed by ISI), 8 books, 17 book chapters, several working papers (134), datasets (62), proceedings (61) and various other publications including policy, technical briefs and social media outputs (144), presenting totally 565 published knowledges and information products. A clear move toward the examination of new system approaches emerges from this body of scientific knowledge with 67 journal articles (48,5% of the total published journal articles) presenting multidisciplinary and/or integrated systems researches. We expect the system approaches to generate greater public awareness on agricultural livelihood issues in dryland areas and to reshape the traditional thinking about key performance determinants of dryland agro-ecosystems as well as prompt relevant responses in order to meet the challenges faced by rural dryland communities. What follows is an updated summary list of all 2015 publications and research outputs produced by each partner CGIAR centers and the Dryland Systems Program Management Unit (PMU). At the end of the document is listed a number of system publications already published in 2016.

The following coding has been used throughout the entire document:

- (S) = multidisciplinary/system research
- (M) = mono-disciplinary research
- [X.XXX]= ISI Impact Factor
- (O) = Open Access

Table 1. Summary of all ISI publications

Center	ISI Articles	ISI Factor [range of ISI scores]	Open Access	Monodisciplinary (% of ISI articles)	Multidisciplinary / Systems (% of ISI articles)
Bioversity	4	0.631 - 2.000	1	4	0
CIAT	1	1.897	0	0	1
CIP	1	1.215	0	1	0
ICRAF	9	0.553 - 3.402	6	3	6
IWMI	1	1.77	0	0	1
ILRI ¹	5	1.146 - 6.393	2	1	3
ICRISAT	33	0.00 - 7.885	4	29	4
ICARDA	29	0.043 - 8.044	5	21	8
PMU	8	0.82 - 6.393	2	2	6
Total ²	89	0.00 - 8.044	18	60	28

Table 2. Summary of Non-ISI Publications

¹ Last updated 5/9/2016.

² Shared publications among different centers count as one.

Center	Non-ISI Articles (systems articles)	Books	Book Chapters	Technical Reports & Working Papers	Proceedings	Datasets	Other	Total per Center
Bioversity	1 (1)	0	0	16	0	2	14	33
CIAT	0	0	0	7	2	0	12	21
CIP	4 (1)	0	0	6	0	2	8	20
ICRAF	5 (3)	0	0	27	0	5	16	53
IWMI	1(1)	0	1	29	0	1	10	42
ILRI ³	3 (3)	0	0	16	7	0	22	48
ICRISAT	14 (14)	0	8	6	14	8	17	67
ICARDA	21 (15)	3	8	22	32	26	29	141
PMU	2 (2)	5	0	6	6	18	16	53
Total ⁴	50 (39)	8	17	134	61	62	144	476

³ Last updated 5/9/2016⁴ Shared publications among different centers count as one.

Bioversity International

ISI Journal Articles (4)

1. (M) [1.461] Achigan-Dako, E.G.; Tchokponhoue, D.A.; N'Danikou, S.; Gebauer, J.; Vodouhe, R.S. (2015). Current knowledge and breeding perspectives for the miracle plant *Synsepalum dulcificum* (Schum. et Thonn.) Daniell. *Genetic Resources and Crop Evolution* 62(3) p. 465-476.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4597>
DOI: <http://dx.doi.org/10.1007/s10722-015-0225-7>
2. (M) [1.461] Dossou-Aminon, I.; Dansi, A.; Ahissou, H.; Cisse, N.; Vodouhe, R.; Sanni, A. (2015). Climate variability and status of the production and diversity of Sorghum (*Sorghum Bicolor* – L. – Moench) in the arid zone of northwest Benin. *Genetic Resources and Crop Evolution* On-line first paper p. 1-21.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4602>
DOI: <http://dx.doi.org/10.1007/s10722-015-0310-y>
3. (M) [0.631] N'Danikou, S.; Achigan-Dako, E.G.; Tchokponhoue, A.D.; Assogba Komlan, F.; Vodouhe, S.R.; Ahanchede, A. (2015). Improving seedling production for *Vitex Doniana*. *Seed Science and Technology* 43(1) p. 10-19.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4598>
DOI: <http://doi.org/10.15258/sst.2015.43.1.02>
4. (M) (O) [2.000] N'Danikou, S.; Achigan-Dako, E.G.; Tchokponhoue, D.A.; Agossou, C.O.A.; Houdegbe, C.A.; Vodouhe, R.S.; Ahanchede, A. (2015) Modelling socioeconomic determinants for cultivation and in-situ conservation of *Vitex Doniana* Sweet (black plum), a wild-harvested economic plant in Benin. *Journal of Ethnobiology and Ethnomedicine* 11:28.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4737>
DOI: <http://dx.doi.org/10.1186/s13002-015-0017-3>

Books (0)

Journal Articles not in ISI but in Elsevier SCOPUS (0)

Book Chapters (0)

Non-ISI/SCOPUS Journal Articles and Theses (1)

1. (S) Sidibe, A.; Vodouhe, R.S.; N'Danikou, S. (2015). Mali: an overview of community seed and gene banks. IN Community seed banks: origins, evolution and prospects. (Verwooy, R. et al. – Eds.) Bioversity International p. 125-131, ISBN: 978-0-415-70806-7.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4601>

Technical Reports and Working Papers (16)

1. Vodouhe, R., S.N'Danikou, M.Bellon (2015). Crop, tree and animal breed diversification and improvement in Niger, West Africa: Annual report.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4353>

2. Vodouhe, R., S.N'Danikou, M.Bellon, N.Maman Kassoum (2015). Nutrient rich local food diversity in Niger, West Africa: Annual report 2015.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4222>

3. Vodouhe, R., S.N'Danikou, M.Bellon, N.Maman Kassoum (2015). Multi-purpose tree diversity and distribution assessment in Mali.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4355>

4. Vodouhe, R., S.N'Danikou, M.Bellon, A.Sidibe (2015). Multi-purpose tree diversity and distribution assessment in Mali and Ghana, West Africa.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4356>

5. Mathur, P. (2015). Report of the agrobiodiversity baseline survey in Western Rajasthan, India.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3179>

6. Mathur, P. (2015). Use and conservation of agrobiodiversity for increased agricultural sustainability, smallholder wellbeing and resilience to climate change in India - Rajasthan.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3182>

7. Mathur, P. (2015). Baseline Survey for Agricultural Biodiversity in Vijayapur District of Karnataka.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3178>

8. Mathur, P. (2015). Use and conservation of agrobiodiversity for increased agricultural sustainability, smallholder wellbeing and resilience to climate change in India – Karnataka.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3181>

9. Mathur, P. (2015). Baseline survey for agricultural biodiversity in Anantapuramu and Kurnool districts of Andhra Pradesh.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3183>

10. Mathur, P. (2015). Use and conservation of agrobiodiversity for increased agricultural sustainability, smallholder wellbeing and resilience to climate change in India - Andhra Pradesh.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3184>

11. Mathur, P. (2015). Baseline Survey for Agricultural Biodiversity in Vijayapur District of Karnataka, India 2014.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4352>

12. Mathur, P. (2015). Baseline Survey for Agricultural Biodiversity in Anantapuramu and Kurnool Districts of Andhra Pradesh, India 2014.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4351>

13. Turdieva, M. (2015). Enhanced system of quality fruit tree planting material production in Uzbekistan.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3398>

14. Vodouhe, R., S.N'Danikou, M.Bellon, N.Maman Kassoum (2015). Locally produced nutritious foods and imported foods survey: Progress report.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4221>

15. Vodouhe, R., S.N'Danikou, S.N'Danikou, S.N'Danikou (2015). Crop, tree and animal breed diversification and improvement in Niger, West Africa: Progress report.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4354>

16. N'Danikou, S., R.Vodouhe, M.Bellon, A.Sidibe (2015, March 30). Access and use of wild agricultural biodiversity to improve household food security in West African dryland systems.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4600>

Proceedings (0)

Data sets (2)

1. Turdieva, M. (2015, July 09). Fruit tree crops, varieties multiplied by farmers and geo-locations.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3687>

2. Turdieva, M. (2015, December 05). Key suppliers of quality planting material of fruit trees in Uzbekistan.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3385>

Other publications (14)

1. Turdieva, M. (2015, December 16). Leaflets on knowledge and experience of farmers in production quality planting material of fruit trees [Manual].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3574>

2. Turdieva, M. (2015, December 16). Leaflets on knowledge and experience of farmers in production quality planting material of fruit trees [Manual].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3575>

3. Turdieva, M. (2015, December 16). Leaflets on knowledge and experience of farmers in production quality planting material of fruit trees [Manual].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3576>

4. Turdieva, M. (2015, December 16). Leaflets on knowledge and experience of farmers in production quality planting material of fruit trees [Manual].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3577>

5. Turdieva, M. (2015, December 16). Leaflets on knowledge and experience of farmers in production quality planting material of fruit trees [Manual].
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3578>
6. Turdieva, M. (2015, December 16).Leaflets on knowledge and experience of farmers in production quality planting material of fruit trees [Manual].
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3579>
7. Turdieva, M. (2015, December 16). Leaflets on knowledge and experience of farmers in production quality planting material of fruit trees [Manual].
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3580>
8. Turdieva, M. (2015, December 16). Leaflets on knowledge and experience of farmers in production quality planting material of fruit trees [Manual].
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3581>
9. Turdieva, M. (2015, December 16). Geographical distribution of quality planting material of fruit trees produced in Fergana and Aral Sea Action Sites [Map].
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3404>
10. Turdieva, M., Baymetov, K. (2015). List of suppliers of quality planting material of fruit trees [Brochure].
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3403>
11. Vodouhe, R., S.N'Danikou, M.Bellon (2015, July 30). Protocole pour l'valuation de la Biodiversit Agricole (ABD) et Alimentaire Maradi, Niger, Afrique de l'Ouest [Tool].
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4223>
12. Vodouhe, R., S.N'Danikou, M.Bellon (2015, July 30).Protocole pour lvaluation de la diversit des cultures, des espces agro forestires et des animaux Agui, Maradi [Tool].
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4224>
13. Gbenato Enoch, A., A.Segnon, R.Vodouhe, D.Sogbohossou, S.N'Danikou, A.Adam, B.Sinsin (2015, March 30). Place of plant genetic resources in ecological intensification and options for sustainable production by smallholder farmers in West African Sahel and dry savannas [Manuscript Un-published].
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4603>
14. Bellon, M. (2015, December 16). Assessing the importance of agricultural and tree biodiversity in dryland production systems [Web log post].
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4350>

CIAT

ISI Journal Articles (1)

1. (S) [1.897] Tamene L., Mponela P., Ndengu G. & Kihara J., (2015). Assessment of maize yield gap and major determinant factors between smallholder farmers in the Dedza district of Malawi. Nutr. Cycl. Agroecosyst.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4580>

DOI: <http://dx.doi.org/10.1007/s10705-015-9692-7>

Books (0)

Journal Articles not in ISI but in Elsevier SCOPUS (0)

Book Chapters (0)

Non-ISI/SCOPUS Journal Articles and Theses (0)

Technical Reports and Working Papers (7)

1. Mponela P., Ndengu G., Desta L., Cordingley J., Snyder K., Nalivata P., and Sawasawa H. (2015a). Effect of best-bet sustainable land management technologies of minimum till, agroforestry shrubs and box ridges on yield of maize (SC403) in Nsipe, Malawi. CIAT, Lilongwe.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4269>

2. Mponela P., Desta L., Ndengu G., Remington T., Nyirenda J., and Snyder K. (2015b). Orange-fleshed sweet potato an alternative for small-scale farmers trapped under Maize Poverty and climate variability. CIAT, Lilongwe, Malawi.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4273>

3. Mponela P, Tamene L., Ndengu G., and Le Q.B. (2015d). 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.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4266>

4. Ndengu G., Desta L.T., Mponela P., Chataika B. and Chirwa R. (2015a). Evaluation of Bush and Climbing Beans under different Cropping Systems and Nutrient Management Regimes in Linthipe and Kandeu, Malawi. 2014/15 season Annual Report for Africa RISING, CIAT, Lilongwe.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4566>

5. Mponela P., Tamene L., Ndengu G. & Mango, N., (under review). Determinants of integrated soil fertility management technologies adoption by smallholder farmers in the Chinyanja Triangle of Southern Africa. Land Use Policy (under review).

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4260>

6. Tamene, L. (2015). Bush bean genotype that thrives under drought in Malawi.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4259>
7. Tamene, L. (2015). Performance of Bush and Climbing beans under the prolonged drought in different Cropping Systems and Fertility Management Regimes in Linthipe and Kandeu, Malawi
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4275>

Proceedings (2)

1. Chataika B., Mponela P., Ndengu G., Desta L., and Chirwa R. (2015). Drought tolerant bean varieties offer hope to smallholder farmers in Malawi. Poster presented at Beating the Famine Conference held in Lilongwe, 2015.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4582>
2. Chataika B., Ndengu G., Mponela P., Magreta R., Desta L., Chirwa R. and Chikowo R. (2015). Participatory Yield Assessment of Climbing and Bush Beans under Different Management Options in Malawi. Poster presented at the Humid Tropics workshop in Abuja, Nigeria in March 2015.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4276>
SITE: <http://goo.gl/tjPCRg>

Data sets (0)

Other publications (12)

1. Mponela P, Tamene L., Ndengu G., and Le Q.B. (2015c). Systems dynamics framework for Ntcheu – Changara Transect. CIAT, Lilongwe, Malawi.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4258>
2. CGIAR CRP DS (2015). Model parameterization for systems analysis: Proceedings of the training and stakeholder discussion held in Lilongwe, Malawi. Author.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4272>
3. CGIAR CRP DS (2015). Systems and Livelihoods Meta-analysis Workshop. DS, Lilongwe, Malawi.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4281>
4. Ndengu G., Desta L.T., Mponela P., Chataika B. and Chirwa R. (2015b). Effect of chicken manure in boosting bean yield. CIAT, Lilongwe, Malawi.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4277>
5. Ndengu G., Desta L.T., Mponela P., Chataika B. and Chirwa R. (2015c). Performance of common beans with chicken manure and NPS fertilizer (23:31:0+4S) applications. CIAT, Lilongwe, Malawi.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4279>

6. Ndengu G., Desta L.T., Mponela P., Chataika B. and Chirwa R. (2015d). Performance of SER45 bushbean variety under drought. CIAT, Lilongwe, Malawi.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4567>

7. Ndengu G., Desta L.T., Mponela P., Chataika B. and Chirwa R. (2015e). Performance of SER83 bushbean variety under drought. CIAT, Lilongwe, Malawi.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4568>

8. Ndengu G., Desta L.T., Mponela P., Chataika B. and Chirwa R. (2015f). Technology: the DC80-263 climbing bean variety. CIAT, Lilongwe, Malawi.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4278>

9. Ndengu G., Desta L.T., Mponela P., Chataika B. and Chirwa R. (2015g). Technology: the MBC33 climbing bean variety. CIAT, Lilongwe, Malawi.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4816>

10. Desta, L. (2015, July 22). Mid-Year Report for the Ntcheu action site, Malawi. Data collected and ready for systems analysis.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4270>

11. Desta, L. (2015, July 22). Mid-Year Report for the Ntcheu action site, Malawi. ISFM options tested on over 50 farmers.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4271>

12. Mponela P., Tamene, L., (2015). Effect of different management options on yield of climbing and drought tolerant bush beans in different soil health conditions.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4581>

CIP

ISI Journal Articles (1)

1. (M) [1.215] Bouda, Z. H.-N., Bayala, J., Jensen, J. S., Markussen, B., Ræbild, A. (2015). Reactions of *Adansonia digitata* L. provenances to long-term stress at seedling stage. *Agroforestry Systems* 89, 113-123.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4569>

DOI: <http://dx.doi.org/10.1007/s10457-014-9746-x>

Books (0)

Journal Articles not in ISI but in Elsevier SCOPUS (1)

1. (S) Kumar, S., R. Quiroz and M.S. Kadian. 2015. Benchmarking Farmers' Economic and Social Status in Anantapuramu and Kurnool Arid Districts of Andhra Pradesh for Probable Introduction of Potato Crop. Accepted in Economic Affairs.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4565>

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5. Biradar, C.2015. Improving agricultural research through Geoinformatics. Issue 29, ICARDA Caravan, ICARDA, Beirut, Lebanon.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3517>

6. Niyazmetov, D., I.Rudenko, A.Akramkhanov, Q.B. Le (2015).Agropastoral livelihood system typology for coping with socio-ecological diversity: A demonstrative case in Karauzyak, Karakalpakstan, Uzbekistan. CRP Dryland Systems, Amman, Jordan.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4665>

Proceedings (6)

1. Le, Q.B. (2015). Farming system models for supporting farm resilience: research needs, gaps and promising approaches. In: Gritti, E.S., Wery, J. (Eds.), Proceedings of the 5th International Symposium for Farming Systems Design (FSD5) - Multi-functional Farming Systems in a Changing World. European Society of Economy (ESA) and Agropolis International, Montpellier, France, pp. 85 - 86.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4296>

DOI: <http://dx.doi.org/10.13140/RG.2.1.4093.0326>

2. Thiombiano, B.A., Le, Q.B. (2015). Soil nutrient balance, economic performance and scenarios for closing nutrient gaps in heterogeneous smallholder farm systems in south-western Burkina Faso. In: Gritti, E.S., Wery, J. (Eds.), Proceedings of the 5th International Symposium for Farming Systems Design (FSD5) - Multi-functional Farming Systems in a Changing World. European Society of Economy (ESA) and Agropolis International, Montpellier, France, pp. 467 - 468.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4305>

DOI: <http://dx.doi.org/10.13140/RG.2.1.1471.5928>

3. Thiombiano, B.A., Le, Q.B. (2015). Farm type-specific adoption behaviour in sustainable soil nutrient management: the case of smallholder farms in Ioba province, Burkina Faso. In: Gritti, E.S., Wery, J. (Eds.), Proceedings of the 5th International Symposium for Farming Systems Design (FSD5) - Multi-functional Farming Systems in a Changing World. European Society of Economy (ESA) and Agropolis International, Montpellier, France, pp. 219-220.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4295>

DOI: <http://dx.doi.org/10.13140/RG.2.1.5141.6082>

4. Biradar, C., Xiao, X., Zhang, G., Zhang, Y., Low, F., Fliemann, E., Dong, J., Wagle, P., Conrad, C., de By, R., Sterk, G., Ziadat, F., Omari, J., Atassi, L., Tulaymat, F., Vlek, P., Le, Q.B., Patil, P., Mahboob, G., Singh, M., Dosov, B., Louhaichi, M., Bonaiuti, E., van Ginkel, M.,and Thomas, R. (2015). Quantification of Land Degradation and Productivity of Agro-ecosystems under Changing Climate and Land Use. Presentation at the 3rd UNCCD Conference, 12-19 March 2015, Cancun, Mexico.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3502>

DOI: <http://dx.doi.org/10.13140/RG.2.1.2618.4727>

5. Omari, J. E., and Biradar, C.M. 2015. An Integrated GeoAgro Webtool for Spatial Data Visualization and Dissemination. 1st International Electronic Conference on Remote Sensing (Open Access). SciForum Electronic Conference Series, 1 (2015).

D-Space: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4803>

6. Patil, P., Dutta, D., Biradar, C., and Singh, M. 2015. Quantification of the terrestrial phytomass and carbon in the mountainous forest ecosystem using remote sensing and in-situ observations. 36th International Symposium on Remote Sensing of Environment, 11–15 May 2015, Berlin, Germany. The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XL-7/W3 (2015). 483-487

D-Space: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4805>

Datasets (18)

1. Biradar, C. (2015, September 09).Vegetation dynamics in central Asia: EVI trends from 2000-2014 [Dataset].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3511>

2. Biradar, C. (2015, September 10).land surface water index [Dataset].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3512>

3. Biradar, C. (2015, September 10).Normalized differential vegetation index [Dataset].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/3513>

4. Biradar, C. (2015, November 03).Ground truth data from the Ferghana valley for remote sensing analysis and validation [Dataset].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4227>

5. Biradar, C. (2015, June 10).Central Asia and NW China Absolute Change of Mean Annual Precipitation 2020s_A1bV1 [Dataset].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4228>

6. Biradar, C. (2015, July 14).Central Asia and NW China Absolute Change of Mean Annual Precipitation 2020s_A2 [Dataset].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4229>

7. Biradar, C. (2015, June 10).Central Asia and NW China Absolute change of the annual maximum temperature 2020s_A1bV1 [Dataset].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4230>

8. Biradar, C. (2015, June 10).Central Asia and NW China Absolute change of the annual maximum temperature 2020s_A2 [Dataset].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4231>

9. Biradar, C. (2015, June 10).Central Asia and NW China Absolute change of the annual minimum temperature 2020s_A1bV1 [Dataset].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4232>

10. Biradar, C. (2015, June 10).Central Asia and NW China absolute change of the annual minimum temperature 2020s_A2V1 [Dataset].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4233>

11. Central Asia and NW China annual average of the monthly maximum temperature 2020s_A1bV1 [Dataset].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4234>

12. Biradar, C. (2015, June 10).Central Asia and NW China Annual average of the monthly maximum temperature 2020s_A2V1 [Dataset].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4235>

13. Biradar, C. (2015, June 10).Central Asia and NW China Annual average of the monthly minimum temperature 2020s_A1bV1 [Dataset].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4236>

14. Biradar, C. (2015, June 10).Central Asia and NW China Annual average of the monthly minimum temperature 2020s_A2V1 [Dataset].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4237>

15. Biradar, C. (2015, June 10).Central Asia and NW China Annual mean precipitation 2020s_A2V1 [Dataset].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4239>

16. Biradar, C. (2015, June 10).Central Asia and NW China Relative Change in Mean Annual Precipitation 2020s_A1bV1 [Dataset].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4240>

17. Biradar, C. (2015, July 15).Central Asia and Xingjiang Province (China) Agroclimatic zones 10_40_A1b [Dataset].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4241>

18. Biradar, C. (2015, July 15). Central Asia and Xingjiang Province (China) monthly Potential Evapo Transpiration 10_40_A1b_A0 [Dataset].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4242>

Other publications (16)

1. Biradar, C. 2015. Remote Sensing to Scale Analysis. Workshop on Integrating Biodiversity and Ecosystem Services into Foresight Models. May 7-8, 2015, Rome, Italy.

D-Space: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4795>

2. Le, Q.B. (2015) Sustainable Intensification: Concept and Challenges from Systems Perspective. Invited presentation at workshop on "Designing sustainable land/farming system for the adaptation of Mediterranean agriculture under global changes" (hosted by Dr. Hatem Belhouchette), 10 September 2015, within the 5th International Symposium for Farming Systems Design (FSD5) - Multi-functional Farming Systems in a Changing World. European Society of Economy (ESA) and Agropolis International, Montpellier, France.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4302>

3. Le, Q.B. (2015) Socio-ecological system models for supporting farm resilience: research needs, gaps and promising approaches. Invited Public Seminar (hosted by Dr. Roman Carrasco), 30 June 2015 at the Department of Biological Science, Faculty of Science, National University of Singapore (NUS), Singapore.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4225>

4. Le, Q.B. (2015). Learning Materials for Advanced Landscape Ecology with Human-Environmental Systems and Agent-based modeling. Guest Lecturer for Master-level course (2 ECTS) Winter Semester 2015/16, 18-22 October 2015 (in-class lectures and computer labs), University of Innsbruck, Innsbruck, Austria.

5. Le, Q.B. (2015). Serial learning materials on "Systems Science, Integrated Systems Analysis and Modeling ModellingIntegrated in "Gendered Systems Modelling Research Approach to Dryland Systems: From Concepts to Practices and Implementation", Training-of-Trainer Course of CGIAR Ressearch Program on Dryland Systems, September 13-22 2015, Cairo, Egypt.

6. Le, Q. (2015, October 01). Human-environment systems: Concept and Contemporary Frameworks [Manual]. CRP Dryland Systems, Amman, Jordan.

D-SPACE: <http://hdl.handle.net/20.500.11766/4700>

7. Le, Q. (2015, November 01). Steps in integrated systems analysis - A non-exhausted guideline. [Manual]. CRP Dryland Systems, Amman, Jordan.

D-SPACE: <http://hdl.handle.net/20.500.11766/4706>

8. Le, Q. (2015, September 30). Review of integrated systems modelling methods and selection guide [Manual]. CRP Dryland Systems, Amman, Jordan.

D-SPACE: <http://hdl.handle.net/20.500.11766/4707>

9. Le, Q. (2015, October 01).Introduction to Multi-Agent Systems (MAS) modelling [Manual]. CRP Dryland Systems, Amman, Jordan.
D-SPACE: <http://hdl.handle.net/20.500.11766/4709>
10. Le, Q. (2015, October 01).An example of MAS-based analysis of a rural community-landscape system [Manual]. CRP Dryland Systems, Amman, Jordan.
D-SPACE: <http://hdl.handle.net/20.500.11766/4703>
11. Le, Q. (2015, October 15).Methodological options for modelling agents decision-making in multi-agent system model of coupled community-landscape systems [Manual]. CRP Dryland Systems, Amman, Jordan.
D-SPACE: <http://hdl.handle.net/20.500.11766/4708>
12. Le, Q. (2015, October 15).Human agents typology and its role [Manual]. CRP Dryland Systems, Amman, Jordan.
D-SPACE: <http://hdl.handle.net/20.500.11766/4705>
13. Le, Q. (2015, October 14).How to model ecological model in MAS - Examples [Manual]. CRP Dryland Systems, Amman, Jordan.
D-SPACE: <http://hdl.handle.net/20.500.11766/4704>
14. Le, Q. (2015, October 15).How to present MAS modelling work and results [Manual]. CRP Dryland Systems, Amman, Jordan.
D-SPACE: <http://hdl.handle.net/20.500.11766/4710>
15. Le, Q. (2015, October 15). Manual for Computer Lab Practice on Multi-Agent System (MAS) for Simulating Coupled Community-Landscape System Dynamics [Manual]. CRP Dryland Systems, Amman, Jordan.
D-SPACE: <http://hdl.handle.net/20.500.11766/4713>
16. Xiao, X., Wagle, P., Bajgain, R., Zhou, Y., Zhang, Y., Biradar, C., Basara, J. 2015. Improving assessment and monitoring of droughts in grasslands. 3rd UNCCD scientific conference on “Combating drought, land degradation and desertification for poverty reduction and sustainable development. Cancun Mexico.
D-SPACE: <http://hdl.handle.net/20.500.11766/4774>

List of 2016 Publications and research outputs

CIAT

ISI Journal Articles (1)

1. (M) (O) [1.449] Tamene, L.; Mponela, P.; Sileshi, G.W.; Chen, J.; Tondoh, J.E. Spatial Variation in Tree Density and Estimated Aboveground Carbon Stocks in Southern Africa. *Forests* 2016, 7, 57.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4579>

Other publications (1)

1. Tamene, L. (2016). Narrowing Common Bean Yield Gap and Improving Productivity Using Organic Soil Amendments within Smallholder Farming Systems of Sub-Saharan Africa [Brochure].
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4585>

ICRAF

ISI Journal Articles (1)

1. (S) (O) [2.906] Luedeling E. et al. (2016). Field-scale modeling of tree-crop interactions: Challenges and development needs. *Agricultural Systems* 142, 51-69.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4556>

Technical Reports and Working Papers (1)

1. Bado, V., P.Savadogo, M.Sanoussi Manzo (2016). Restoration of Degraded Lands in West Africa Sahel: Review of experiences in Burkina Faso and Niger.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4616>

Other publications (2)

1. Sircely, J. (2016). Restoring Ethiopian drylands at scale.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4644>
2. Field Training Photo (2016).
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4335>

IWMI

ISI Journal Articles (1)

1. (S) [3.444] Haileslassie Amare, Craufurd P, Ramilan T, Kumar Shalander, Whitbread AM, Rathore A, Blummel M, Erickson P, Krishna Reddy K. (2016). Empirical evaluation of sustainability of divergent farms in the dryland farming systems of India. Ecological Indicators 60: 710–723.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4877>
DOI: <http://dx.doi.org/10.1016/j.ecolind.2015.08.014>

ILRI

ISI Journal Articles (3)

1. (S) [3.444] Haileslassie Amare, Craufurd P, Ramilan T, Kumar Shalander, Whitbread AM, Rathore A, Blummel M, Ericsson P, Krishna Reddy K. (2016). Empirical evaluation of sustainability of divergent farms in the dryland farming systems of India. Ecological Indicators 60: 710–723.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4877>
DOI: <http://dx.doi.org/10.1016/j.ecolind.2015.08.014>
2. [0.373] Woodard J, Shee A, and Mude A. 2016. A Spatial Econometric Approach to Scalable Index Insurance against Drought Related Livestock Mortality in Kenya. Accepted for publication in 2016, The Geneva Papers on Risk and Insurance – Issues and Practice.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4857>
3. (S) [2.867] Ollenburger, M.H., Descheemaeker, K., Crane, T.A., Sanogo, O.M., Giller, K.E., 2016. Waking the Sleeping Giant: Agricultural intensification, extensification or stagnation in Mali's Guinea Savannah. Agricultural Systems 148, 58–70.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4858>
DOI: <http://dx.doi.org/10.1016/j.agsy.2016.07.003>

Journal Articles not in ISI but in Elsevier SCOPUS (2)

1. (S) Amole T. A and Ayantunde A.A. (2016). Assessment of existing and potential feed resources for improving livestock productivity in Sahel Agro-ecological zone of Niger Republic. International Journal of Agricultural Research (Accepted).

D-SPACE:

2. (S) Amole T. A and Ayantunde A.A. (2016). Assessment of livestock feed resources and management practices in Sudan-Savanna zones of West Africa. African Journal of Agricultural Research (Accepted).

D-SPACE:

Technical Reports and Working Papers (10)

1. Constanas, M., Frankenberger, T., Knippenberg, E. and K. Downie. 2016. Building Better Connections between Theories of Change and the Empirical Demands of Evidence-Based Decisions: The Case of Kenya's Ending Drought Emergencies Policy. Report prepared by the Technical Consortium, a project of the CGIAR. Technical Report Series No 2: Strengthening the Evidence Base for Resilience in the Horn of Africa. Nairobi, Kenya: A joint International Livestock Research Institute (ILRI) and Cornell University publication. (in press)
2. Constanas, M., Upton, J., Knippenberg, E., and K Downie. 2016. Classification of Indicators for Resilience Analysis: An Assessment of Selected Data Sources Focused on Arid and Semi-Arid Lands. Report prepared by the Technical Consortium, a project of the CGIAR. Technical Report Series No 2: Strengthening the Evidence Base for Resilience in the Horn of Africa. Nairobi, Kenya: International Livestock Research Institute (ILRI). (in press)
3. Constanas, M., Cisse, J., and J. Upton. 2016. A Systematic Review of Methods to Measure Resilience: An Analysis of Variable Construction Processes, Prediction Models, and Application Contexts. Report prepared by the Technical Consortium, a project of the CGIAR. Technical Report Series No 2: Strengthening the Evidence Base for Resilience in the Horn of Africa. Nairobi, Kenya: A joint International Livestock Research Institute (ILRI) and Cornell University publication. (in press)
4. Woodson, L, Frankenberger, T., Smtih, L., Langworthy, M. and C. Presnall. 2016. The Effects of Social Capital on Resilience: Evidence from Ethiopia, Kenya, Uganda, Niger and Burkina Faso. Report prepared by the Technical Consortium, a project of the CGIAR. Technical Report Series No 2: Strengthening the Evidence Base for Resilience in the Horn of Africa. Nairobi, Kenya: A joint International Livestock Research Institute (ILRI) and TANGO International publication. (in press)
5. Signorelli, S., Azzarri, C. and Roberts, C. 2016. Malnutrition and Climate Patterns in the ASALs of Kenya: a resilience analysis based on a pseudo-panel dataset. Report prepared by the Technical Consortium, a project of the CGIAR. Technical Report Series No 2: Strengthening the Evidence Base for Resilience in the Horn of Africa. Nairobi, Kenya: A joint International Livestock Research Institute (ILRI) and International Food Policy Research Institute (IFPRI) publication. (in press)
6. Msangi , S. and S. Signorelli. 2016. Maintaining resilience in the ASALs of Kenya: Managing stocking rates in extensive livestock systems. Report prepared by the Technical Consortium, a project of the CGIAR. Technical Report Series No 2: Strengthening the Evidence Base for Resilience in the Horn of Africa. Nairobi, Kenya: A joint International Livestock Research Institute (ILRI) and International Food Policy Research Institute (IFPRI) publication. (in press)
7. Koo, J., Azzarri, C., Signorelli, S., Comanescu, M. and Guo, Z. 2016. Open Data Infrastructure for Resilience Analysis: Implementation, Examples, and Case Studies in Kenya. Report prepared by the Technical Consortium, a project of the CGIAR. Technical Report Series No 2: Strengthening the Evidence Base for Resilience in the Horn of Africa. Nairobi, Kenya: A joint

- International Livestock Research Institute (ILRI) and International Food Policy Research Institute (IFPRI) publication. (in press)
8. Bower, T., Frankenberger, T., Nelson, S., Finan, T., and M. Langworthy. 2016. The effect of livelihood diversity on recovery and shock impact in Ethiopia, Kenya and Uganda. Report prepared by the Technical Consortium, a project of the CGIAR. Technical Report Series No 2: Strengthening the Evidence Base for Resilience in the Horn of Africa. Nairobi, Kenya: A joint International Livestock Research Institute (ILRI) and TANGO International publication. (in press)
 9. Béné, C., Frankenberger, T., Langworthy, M., Mueller, M. and S. Martin. 2016. The influence of subjective and psycho-social factors on people's resilience: conceptual framework and empirical evidence. Report prepared by the Technical Consortium, a project of the CGIAR. Technical Report Series No. 2: Strengthening the Evidence Base for Resilience in the Horn of Africa. Nairobi, Kenya: A joint International Livestock Research Institute (ILRI) and TANGO International publication.
 10. Presenall, C., Frankenberger, T., Smith, L., Brown, V. and M. Langworthy. 2016. Report prepared by the Technical Consortium, a project of the CGIAR. Technical Report Series No 2: Strengthening the Evidence Base for Resilience in the Horn of Africa. Nairobi, Kenya: A joint International Livestock Research Institute (ILRI) and TANGO International publication. (in press)
 11. Amole, TA., A.Ayantunde and A. Dangoma. 2016 Practical guidelines on least cost ration for sheep fattening for livestock farmers and extension workers in West African Sahel. ILRI.
D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4828>

ICRISAT

ISI Journal Articles (1)

1. (S) [3.444] Haileslassie Amare, Craufurd P, Ramilan T, Kumar Shalander, Whitbread AM, Rathore A, Blummel M, Ericsson P, Krishna Reddy K. (2016). Empirical evaluation of sustainability of divergent farms in the dryland farming systems of India. Ecological Indicators 60: 710–723.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4877>

DOI: <http://dx.doi.org/10.1016/j.ecolind.2015.08.014>

ICARDA

ISI Journal Articles (1)

1. (S) [1.157] Das, T.K., Bandyopadhyay, K.K., Bhattacharyya, R., Sudhishri, S., Sharma, A.R., Behera, U.K., Saharawat, Y.S., Sahoo, P.K., Pathak, H., Vyas, A.K., Bhar, L.M., Gupta, H.S., Gupta, R.K., Jat, M.L., 2016. Effects of conservation agriculture on crop productivity and water-use efficiency under an irrigated pigeonpea-wheat cropping system in the western Indo-Gangetic Plains. *Journal of Agricultural Science*, 1-16.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4723>

DOI: [10.1017/s0021859615001264](https://doi.org/10.1017/s0021859615001264);

Book Chapters (1)

1. Dubeux, J., Ben Salem, H., Nefzaoui, A. 2016. Forage production and supply for animal nutrition (Chapter 6). In: P. Inglese, C. Mondragon, A. Nefzaoui, C. Saenz (Eds), *Agroecology, Cultivation and uses of cactus pear (Opuntia sp.)* (in press).

Other Publications (1)

1. Ben Salem, H (Writer). (2016, May 04).Recent trends in conservation agriculture [Video file].

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4771>

PMU

ISI Journal Articles (1)

- (S) [2.972] Akhtar-Schuster, M., Amiraslani, F., Morejon, C.F.D., Escadafal, R., Fulajtar, E., Grainger, A., Kellner, K., Khan, S.I., Pardo, O.P., Sauchanka, U., Stringer, L.C., Reda, F., Thomas, R.J., 2016. Designing a new science-policy communication mechanism for the UN Convention to Combat Desertification. *Environ. Sci. Policy* 63, 122-131.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4859>

DOI: <http://dx.doi.org/10.1016/j.envsci.2016.03.009>

Non-ISI journal paper (1)

- (S) Thomas, R., Schauer, M., 2016. Putting Economic and Environmental Sustainability Hand in Hand to Protect Our Lands. *Solution* 7, 17-20. ISSN: 2154-0926

Book Chapters (3)

1. Le, Q.B., Nkonya, E., Mirzabaev, A. (2016). Biomass Productivity-Based Mapping of Global Land Degradation Hotspots. In: Nkonya, E., Mirzabaev, A., von Braun, J. (Eds.), *Economics of Land Degradation and Improvement – A Global Assessment for Sustainable Development*. Springer International Publishing, pp. 55-84.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4286>

DOI: http://dx.doi.org/10.1007/978-3-319-19168-3_4

2. Nkonya, E., von Braun, J., Mirzabaev, A., Le, Q.B., Kwon, H.-Y., Kirui, O., 2016. Concepts and Methods of Global Assessment of the Economics of Land Degradation and Improvement. In: Nkonya, E., Mirzabaev, A., von Braun, J. (Eds.), *Economics of Land Degradation and Improvement – A Global Assessment for Sustainable Development*. Springer International Publishing, pp. 15-32.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4289>

DOI: http://dx.doi.org/10.1007/978-3-319-19168-3_2

3. Mirzabaev, A., Goedecke, J., Dubovyk, O., Djanibekov, U., Le, Q.B., Aw-Hassan, A., 2016. Economics of Land Degradation in Central Asia. In: Nkonya, E., Mirzabaev, A., von Braun, J. (Eds.), *Economics of Land Degradation and Improvement – A Global Assessment for Sustainable Development*. Springer International Publishing, pp. 261-290.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4291>

DOI: http://dx.doi.org/10.1007/978-3-319-19168-3_10

Technical Reports and Working Papers (1)

1. Cornell, A., Weier, J., Stewart, N., Spurgeon, J., Etter, H., Thomas, R., Favretto, N, Chilombo, A., van Duivenbooden, N., van Beek, C., and de Ponti, T. (2016). *Economics of Land Degradation Initiative: Report for the private sector. Sustainable land management – A business opportunity*. GIZ: Bonn, Germany.

D-SPACE: <http://mel.cgiar.org/xmlui/handle/20.500.11766/4875>

SITE: <http://www.eld-initiative.org/index.php?id=111>



RESEARCH
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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.

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