

CRP: Dryland Systems (DS)

Center: ICARDA

Flagship: NAWA

Action Site: Béni Khedache-Sidi Bouzid (Tunisia)

Activity Full Title: In collaboration with decision makers and users develop a national pastoral code and assess and promote needed policies

Activity co-leaders: Mounir Louhaichi & Jutta Werner

Key national partner(s): Ministry of Agriculture (DGF, IRESA, IRA, OEP, CRDA Medenine); Ministry of Environment, Ministry of Interior, civil society, etc.

Objective: To develop policies that will enable implementation of pastoral code

Research question: Can pastoral codes be effective way of managing common rangelands and what policies are needed to implement them?

Code number: 005

Output 6 months: Bibliography related to the development of pastoral code for Tunisia (Rangeland Governance)

There are three significant questions relevant to the achievement of effective and meaningful rangeland governance:

1. Scale of the problem: What are the impacts on natural resources degradation for poverty amongst agro-pastoralist communities
2. What are the environmental, socio-economic and political conditions for a successful rangeland governance scheme?
3. What legal, administrative and managerial mechanisms (such as pastoral codes, charters, local conventions, by-laws, co-management) exist on dryland rangelands worldwide and which are the lessons learnt and best practice examples?

Next step: Publishing a literature review on the best practice examples and lessons learnt out of the existing bibliography.

Alinon, K., and Kalinganire, A. 2008: Effectiveness of bylaws in the management of natural resources: The West African experience. International food policy research institute (IFPRI): for CGIAR systemwide program on collective action and property rights (CAPRI).
Banks, T. 2003: Property rights reform in rangeland China: dilemmas on the road to the household ranch. <i>World Development</i> , 31(12), 2129-2142.
Banzhaf, M. 2005 : Les impacts socio-économiques de la gestion décentralisée des ressources naturelles. La contribution des conventions locales à la lutte contre la pauvreté. GTZ.
Bayer, W., Sloane, P., Grice, A. C. and Hodgkinson, K. C. 2002: International perspectives on the rangelands. <i>Global rangelands: progress and prospects</i> . 211-220.
Ben Saad Abdallah and A. Bourbouze. 2010. Gestion des terres collectives au Maghreb: Impacts socio-environnementaux de la privatisation. <i>Manuel governance fonciere et usage des resources naturelles FONCIMED</i> . 24 p.
Blaikie, P. 2006: Is small really beautiful? Community-based natural resource management in Malawi and Botswana. <i>World development</i> , 34(11), 1942-1957.
Cotula26, L. 2004: Securing the commons in an era of privatisation: Policy and legislative challenges. <i>Land in Africa Market asset or secure livelihood?</i> , 115.
Davidson, J.; Lockwood, M.; Curtis, A.; Stratford, E. and Griffith, R. 2006: Governance Principles for Regional Natural Resource Management. Pathways to good practice in regional NRM governance.
Davies J., Ogali C., Laban P. and Metternicht G., 2015: Homing in on the range: Enabling Investments for Sustainable Land Management. Technical Brief 29/01/2015. Nairobi: IUCN and CEM.
Déclaration de Nouakchott sur le pastoralisme 2013: Mobilisons ensemble un effort ambitieux pour un pastoralisme sans frontières. 29 Octobre.
Diarisso, T.; Corbeels, M.; Andrieu, N. Djamen, P. and Tittonell, P. 2015: Biomass transfers and nutrient budgets of the agro-pastoral systems in a village territory in south-western Burkina-Faso. In: <i>Nutrient Cycling in Agroecosystems</i> . Springer.
Dong, S., Lassoie, J., Shrestha, K. K., Yan, Z., Sharma, E., and Pariya, D. 2009: Institutional development for sustainable rangeland resource and ecosystem management in mountainous areas of northern Nepal. <i>Journal of environmental management</i> , 90(2), 994-1003.
Dougill, A. J., Stringer, L. C., Leventon, J., Riddell, M., Rueff, H., Spracklen, D. V., and Butt, E. 2012: Lessons from community-based payment for ecosystem service schemes: from forests to rangelands. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 367(1606), 3178-3190.

Falk, T., Volland, B. and Kirk, M. 2012: Analysis of material, social and moral governance in natural resources management in southern Namibia. International Journal of the Commons. 6:2.
FAO 2007: The state of food and agriculture. Paying farmers for environmental services. World and regional overview. Rome, Italy.
Farrington, J., and Boyd, C. 1997: Scaling up the Participatory Management of Common Pool Resources. Development policy review, 15(4), 371-391.
Fédération des Alpages de l'Isère, 2006 : Plaidoyer pour un code pastoral. Regards croisés sur le foncier. Septièmes Rencontres Internationales de Pastoralisme. Isère, France.
Fernandez-Gimenez, M. E., and Khishigbayar, J. 2005: Reflections on Mongolia's 2002 Land Law: Implications for herders and rangelands. In International Symposium: Mongolian Nomadic Society and Land Ownership, A Comparative Study on Land Privatization in Transitional Countries. Center for Asian Legal Exchange, Nagoya University, Nagoya, Japan.
Gelan, D. T. 2014: Pastoral Rangelands Policy and Institutional Concerns In Ethiopia. Pastoral Rangelands Policy and Institutional Concerns In Ethiopia (November 15, 2014).
GIZ (no date) : Le programme de Développement Rural Décentralisé du Chad. Recueil de documents sur le PDRD.
GTZ, 2003: Les conventions locales – un instrument de la gestion décentralisée des ressources naturelles. Les expériences de la Coopération Technique Allemande au Développement (GTZ) en Afrique de l'ouest. Recueil de textes conceptuels et originaux. Deutsche Gesellschaft fuer Technische Zusammenarbeit GmbH. Eschborn, Germany.
Hannam, I. 2012: International Perspectives on Legislative and Administrative Reforms as an Aid to Better Land Stewardship. In Rangeland Stewardship in Central Asia (pp. 407-429). Springer Netherlands.
Herrera, P.M.; Davies, J. and Baena, P.M. (editors) 2014: The governance of rangelands. Collective action for sustainable pastoralism. IUCN. Routledge.
Hilhorst, D. H. 2008: Local governance institutions for sustainable natural resource management in Mali, Burkina Faso and Niger. Royal tropical institute (KIT).
Ho, P. 2000: The clash over State and Collective Property: The making of the Rangeland Law. Cambridge University Press on behalf of the School of Oriental and African Studies. JSTOR.org.
Hosseininia, G., Azadi, H., Zarafshani, K., Samari, D., & Witlox, F. 2013: Sustainable rangeland management: Pastoralists' attitudes toward integrated programs in Iran. Journal of Arid Environments, 92, 26-33.
Journal Officiel de la République Islamique de Mauritanie, 2003: Loi no 2000-044 du 26 juillet 2000 portant Code Pastoral en Mauritanie.

Kabii, T. and Horwitz, P. 2006: A review of landholder motivations and determinants for participation in conservation covenanting programmes. In: Environmental Conservation 33 (1): 11-20.
Kilani, H.; Serhal, A. and Llewlyn, O., 2007: Al-Hima: A way of life, IUCN West Asia regional Office, Amman Jordan – SPNL Beirut, Lebanon.
Leach, M., Mearns, R., and Scoones, I. 1999: Environmental entitlements: dynamics and institutions in community-based natural resource management. World development, 27(2), 225-247.
Li, W. and Li, Y. 2012: Managing Rangeland as a Complex System: How Governmental Interventions Decouple Social Systems from Ecological Systems. In: Ecology and Society 17(1):9.
Marshall, G. R., and Smith, D. M. S. 2010: Natural resources governance for the drylands of the Murray–Darling Basin. The Rangeland Journal, 32(3), 267-282.
Meynen, W. and Doornbos, M. 2004: Decentralizing Natural Resource Management: A Recipe for Sustainability and Equity. European Journal of Development Research. Volume 16, No 1. http://pdf.wri.org/eaa_decentralization_ejdr_final_chap13.pdf
Milton, S. J., Dean, W. R. J., and Richardson, D. M. 2003: Economic incentives for restoring natural capital in southern African rangelands. Frontiers in Ecology and the Environment, 1(5), 247-254.
Ministère de l'Environnement et de l'Assainissement du Mali, GIZ, Intercooperation, World Agroforestry Center (no date) : Guide méthodologique national. Elaboration d'une convention locale de gestion des ressources naturelles.
Ministry of Agriculture, IUCN, EU 2014: Updated Rangeland Strategy for Jordan. Directorate of Rangelands and Badia Development. Jordan.
Ministry of Environment, IUCN, GEF 2015: The Aligned National Action Plan To Combat Desertification in Jordan 2015-2020.
Ministry of Environment, IUCN, GEF 2015: The National Biodiversity Strategy and Action Plan. 2015-2020.
Moritz, M., Scholte, P., Hamilton, I. M., and Kari, S. 2013: Open access, open systems: pastoral management of common-pool resources in the Chad Basin. Human Ecology, 41(3), 351-365.
Moritz, M.; Catherine, B.L.; Drent, A.K.; Kari S.; Mouhaman, A. and Scholte, P. 2013: Rangeland governance in an open system: Protecting transhumance corridors in the Far North Province of Cameroon. In: Pastoralism: Research, Policy and Practice, 3:26.
Mwangi, E., and Dohrn, S. 2008: Securing access to drylands resources for multiple users in Africa: A review of recent research. Land Use Policy, 25(2), 240-248.

<p>Myint, M.M. and Westerberg, V. 2014: An economic valuation of a large-scale rangeland restoration project through the Hima system in Jordan. Report from the ELD Initiative by International Union for Conservation of Nature, Nairobi, Kenya. Available from: www.eld-initiative.org.</p>
<p>Neely, C.; Bunning, S. and Wilkes, A. 2009: Review of evidence on drylands pastoral systems and climate change. Implications and opportunities for mitigation and adaptation. Land and Water Discussion Paper 8. FAO, Rome.</p>
<p>Nefzaoui, A.; El Mourid, M. and Louhaichi, M. 2014: The Tribe. Platform of Participatory Local Development and Management of Communal Rangeland Resources. In: Journal of Arid Land Studies 24-1, 57-60.</p>
<p>Ngaido, T. and Kirk, M. 2000: Collective action, property rights, and devolution of rangeland management: Selected examples from Africa and Asia. ICARDA.</p>
<p>Niamir-Fuller, M. 2005: Managing mobility in African rangelands. Collective Action and Property Rights for Sustainable Rangeland Management. CAPRI research brief. CAPRI.</p>
<p>Peters, D.P.C.; Havstad, K.M.; Archer, S.R. and Sala, O.E. 2015: Beyond desertification: new paradigms for dryland landscapes. In: Frontiers in Ecology and the Environment 13 (1):4-12.</p>
<p>Programme d'Appui aux Collectivités Territoriales, Mali (no date) : Comment mieux gérer nos ressources naturelles ? La convention locale – Guide méthodologique. GTZ. DED.</p>
<p>Quinn, C. H., Huby, M., Kiwasila, H., and Lovett, J. C. 2007: Design principles and common pool resource management: An institutional approach to evaluating community management in semi-arid Tanzania. Journal of Environmental Management, 84(1), 100-113.</p>
<p>Ribot, J. C. 2003: Democratic decentralisation of natural resources: institutional choice and discretionary power transfers in Sub-Saharan Africa. Public administration and development, 23(1), 53-65.</p>
<p>Safstrom, R., and Waddell, P. J. 2013: Using economic, social and ecological spatial patterns to guide policy development in the Pilbara and Southern Rangelands of Western Australia. The Rangeland Journal, 35(2), 231-239.</p>
<p>Salmon, M., and Gerritsen, R. 2013: A more effective means of delivering conservation management: a 'New Integrated Conservation' model for Australian rangelands. The Rangeland Journal, 35(2), 225-230.</p>
<p>Sayre, N. F., McAllister, R. R., Bestelmeyer, B. T., Moritz, M., and Turner, M. D. 2013: Earth Stewardship of rangelands: coping with ecological, economic, and political marginality. Frontiers in Ecology and the Environment, 11(7), 348-354.</p>
<p>Sheehy, D. P., Thorpe, J., and Kirychuk, B. 2006: Rangeland, livestock and herders revisited in the northern pastoral region of China. In Rangelands of Central Asia: Proceedings of the Conference on Transformations, Issues and Future Challenges (pp. 62-82).</p>

Toulmin, C., Hesse, C. E. D., and COTULA, L. 2004: Pastoral commons sense: lessons from recent developments in policy, law and practice for the management of grazing lands. *Forests, Trees and Livelihoods*, 14(2-4), 243-262.

Umutoni, C. 2014: Local conventions governing community participation in the decentralized management of natural resources: Case study of mixed crop-livestock systems in the Sudano-Saharan zone of West Africa.

Wabnitz, H.-W. 2006: The Code Pastoral of the Islamic Republic of Mauritania. Return to Sources: Revival of Traditional Nomads' Right to Common Property Resources. In: Colloque international "Les frontières de la question foncière, Montpellier 2006.

Wang, M. P., Zhao, C. Z., Long, R. J., & Yang, Y. H. 2010: Rangeland governance in China: overview, impacts on Sunan County in Gansu Province and future options. *The Rangeland Journal*, 32(2), 155-163.

Authors/Collaborators:

Dr. Jutta Werner. Scientist for Rangeland Management and Rangeland Ecosystem Services at the International Center for Agricultural Research in Dry Areas (ICARDA), Amman, Jordan. J.Werner@cgiar.org

Dr. Mounir Louhaichi. Senior Rangeland Scientist at the International Center for Agricultural Research in Dry Areas (ICARDA), Amman, Jordan. M.Louhaichi@cgiar.org

Mr. Youssef Saadani. Directeur Direction Generale des Forets, Ministry of Agriculture (Tunisia). ysaadani04@yahoo.fr

Dr. Ali Nefzaoui. Consultant at the International Center for Agricultural Research in Dry Areas (ICARDA), Amman, Jordan. A.Nefzaoui@cgiar.org