

## THEME 2 AND RELATED PROJECTS LIST OF PUBLICATIONS

### Theme 2 Publications

#### *Journal Article*

Campbell, B., Hagmann, J., Sayer, J., Stroud, A., Thomas, R. & Wollenberg, E.(2006). What kind of research and development is needed for integrated natural resource management? *Water International* Vol 31, No.3. Forthcoming.

Otero, M., Rubiano, J., Lema, G. & Soto, V. (2006). Using similarity analyses to scale out research findings. *Water International* Vol 31, No.3. Forthcoming .

Ravnborg, H. (2006). Water management and the poor: Issues and scales of action. *Water International* Vol 31, No.3. Forthcoming.

Rubiano, J., Quintero, M., Estrada, R. & Moreno, A. (2006). Multiscale Analysis for Promoting Integrated Watershed Management. *Water International* Vol 31, No.3. Forthcoming.

Sullivan, C., Meigh, J. & Lawrence, P. (2006). Application of the Water Poverty Index at Different Scales: A Cautionary Tale. *Water International* Vol 31, No.3. Forthcoming.

Swallow, B., Johnson, N., Meinzen-Dick, R. & Knox, A. (2006). The challenges of inclusive cross-scale collective action in watersheds. *Water International* Vol 31, No.3. Forthcoming. **Theme 2 Conceptual Framework.**

#### *Paper*

Rubiano, J. & Otero, M. (2006). Exploring the Use of Social Network Analysis as a Tool to Understand the Relationships between Social Structure and Water Management Practices. Draft.

Rubiano, J. & Peralta, A. (2006). Scaling Up in Watershed Management Research Projects. Draft.

Peralta, A. (2006). Review of Literature of Landscape scale processes.  
[http://gisweb.ciat.cgiar.org/wcp/download/PES\\_Workshop/Peralta\\_PES\\_Paper\\_Nairobi\\_2006.pdf](http://gisweb.ciat.cgiar.org/wcp/download/PES_Workshop/Peralta_PES_Paper_Nairobi_2006.pdf)

### PN17 IWRM for Improved Rural Livelihoods

#### *Journal Article*

Maisiri, N., Rockström, J., Senzanje, A. & Twomlow, S. (2005). An on-farm evaluation of the effects of low cost drip irrigation on water and crop productivity, compared to conventional surface irrigation system. *Physics and Chemistry of the Earth*, 30, 783-791.

Moyo, R., Love, D., Twomlow, S., Mupangwa, W. & Mul, M. (2005). Impact and sustainability of low-head drip irrigation kits, in the semi-arid Gwanda and Beitbridge Districts, Mzingwane Catchment, Limpopo Basin, Zimbabwe. *Physics and Chemistry of the Earth*, 31, 885-892.

Moyce, W., Mangeya, P., Owen, R.J. & Love, D. (2006). Alluvial aquifers in the Mzingwane Catchment: their distribution, properties, current usage and potential expansion. *Physics and Chemistry of the Earth*, 31, 988-994.

Love, D., Twomlow, S., Mupangwa, W., Van der Zaag, P. & Gumbo, B. (2006). . Implementing the millennium development food security goals – Challenges of the southern African context. *Physics and Chemistry of the Earth*, 31, 731-737.

Mupangwa, W., Love, D. & Twomlow, S. (2006). Soil-water conservation and rainwater harvesting strategies in the semi-arid Mzingwane Catchment, Limpopo Basin, Zimbabwe. *Physics and Chemistry of the Earth*, 31, 83-900.

Nare, L., Love, D. & Hoko, Z. (2006). Involvement of stakeholders in the water quality monitoring and surveillance system: the case of Mzingwane Catchment, Zimbabwe. *Physics and Chemistry of the Earth*, 31, 707-712.

Kileshye, J.M., Mazvimavi, D., Love, D. & Mul, M. (2006). Effects of dams on river. *Physics and Chemistry of the Earth*, 31, 870-875.

### *Papers*

Love, D., Taigbenu, A.E. & Jonker, L. (2005). An overview of the Mzingwane Catchment, Zimbabwe. WaterNet Working Paper 1.

Love, D. & Jonker, L. (2005). Short report on five masters projects from the Mzingwane Catchment, Zimbabwe. WaterNet Working Paper 2.

Twomlow, S., Rohrbach, D., Rusike, J., Mupangwa, W., Dimes, J. & Ncube, B. (2006). Spreading the word on fertilizer. ICRISAT GTAE Report 24.

Love, D. (2006). Short Report on Masters research in the Mzingwane. WaterNet Working Paper 3.

Love, D. (2006). Short Report on Masters research cofunded by RELMA-in-ICRAF in the Mzingwane Catchment, Zimbabwe, 2004/5. WaterNet Working Paper 4.

Love, D. & Nyabeze, W. (2006). Short Report on Doctoral research within WaterNet Challenge Program Project PN17. WaterNet Working Paper 5.

Ncube, M. & Taigbenu, A.E. (2005). The Impact Of Land Cover And Land Use On Hydrological Response In The Olifants Catchment. Special Colloquium, Water Research Showcase, Univ. of Johannesburg, Pretoria & The Witwatersrand.

Taigbenu, A.E., Ncube, M. & Boroto, R.J. (2005). Resources Management in Agriculture: Convergence Of Needs And Opportunities. 12th SANCHIAS Symposium.

Love, D., Jonker, L., Rockström, J., Van der Zaag, P. & Twomlow, S. (2004). The Challenge of Integrated Water Resource Management for Improved Rural Livelihoods in the Limpopo Basin – an introduction to WaterNet's first network research program. WaterNet/WARFSA/GWP-SA Annual Symposium, Namibia.

Basima, L., Sawunyama, T., Chinoda, G., Twikirize, D., Senzanje, A., Love, D., Hoko, Z., Manzungu, E., Mangeya, P., Matura, N., Mhizha, A. & Sithole, P. (2005). An integrated evaluation of a small reservoir and its contribution to improved rural livelihoods: Sibasa Dam, Limpopo Basin, Zimbabwe. WaterNet/WARFSA/GWP-SA Annual Symposium, Swaziland.

Kileshye J.M., Rockström, J., Mazvimavi, D., Love, D., Mul, M. Van Rooyen, A. & Twomlow, S (2005). Influence of human activities on the hydrology of the Insiza River, Limpopo Basin, Zimbabwe - implications for catchment planning. WaterNet/WARFSA/GWP-SA Annual Symposium, Swaziland.

Love, D., Twomlow, S., Mupangwa, W., Van der Zaag, P. & Gumbo, B. (2005). Implementing the millennium development food security goals - challenges of the southern African context. WaterNet/WARFSA/GWP-SA Annual Symposium, Swaziland.

Love, D., Uhlenbrook, S., Nyabeze, W., Owen, R., Twomlow, S., Savenije, H., Woltering, L. & Van der Zaag, P. (2005). Analysis of hydrological change for IWRM planning: case study of the Mzingwane River, Limpopo Basin, Zimbabwe. WaterNet/WARFSA/GWP-SA Annual Symposium, Swaziland.

Moyce, W., Mangeya, P., Owen, R.J. & Love, D. (2005). Alluvial aquifers in the Mzingwane Catchment: their distribution, properties, current usage and potential expansion and risk. WaterNet/WARFSA/GWP-SA Annual Symposium, Swaziland.

Moyo, B., Madamombe, E. & Love, D. (2005). A model for reservoir yield under climate change scenarios for the water-stressed City of Bulawayo, Zimbabwe. WaterNet/WARFSA/GWP-SA Annual Symposium, Swaziland.

Moyo, R., Love, D., Twomlow, S., Mupangwa, W. & Mul, M. (2005). Impact and sustainability of drip irrigation kits in the semi-arid Lower Mzingwane Subcatchment,

Limpopo Basin, Zimbabwe. WaterNet/WARFSA/GWP-SA Annual Symposium, Swaziland.

Munamati, M., Mhizha, A. & Sithole, P. (2005). Cultivating livelihoods: an assessment of water allocation and management practices in small-scale irrigation schemes -case studies in Mzingwane Catchment. WaterNet/WARFSA/GWP-SA Annual Symposium, Swaziland.

Mupangwa, W., Love, D. & Twomlow, S. (2005). Soil-water conservation and other rainwater harvesting strategies in the semi-arid Mzingwane Catchments, Limpopo Basin, Zimbabwe. WaterNet/WARFSA/GWP-SA Annual Symposium, Swaziland.

Nare, L., Love, D. & Hoko, Z. (2005). Involvement of stakeholders in the water quality monitoring and surveillance system: the case of Mzingwane Catchment. WaterNet/WARFSA/GWP-SA Annual Symposium, Swaziland.

Love, D., Gumbo, B. & Nyabeze, W. (2005). Managing risk, mitigating drought and improving water productivity in the water scarce Limpopo Basin: highlights of some integrated water resources management solutions. CGIAR Challenge Program on Water and Food International Workshop on “Enhancing human and ecological well-being in Africa through sustainable increases in water productivity”, Uganda.

Love, D., Gumbo, B. & Nyabeze, W. (2006). Managing risk, mitigating drought and improving water productivity in the water scarce Limpopo Basin: highlights of some integrated water resources management approaches. SADC Land and Water Management Applied Research Programme Scientific Symposium “Land and Water Management for Sustainable Agriculture”, Malawi.

Love, D., Uhlenbrook, S., Madamombe, E., Twomlow, S. & Van der Zaag, P. (2006). An evaluation of climate and runoff variability and associated livelihood risks in the Mzingwane Catchment, Limpopo Basin, Zimbabwe. Water Institute of Southern Africa Biennial Conference and Exhibition, Durban, South Africa.

Twomlow, S., Rohrbach, D., Hove, L., Mupangwa, W., Mashingaidze, N., Moyo, M. & Chiroro, C. (2006). Conservation farming by basins breaths new life into smallholder farmers in Zimbabwe. SADC Land and Water Management Applied Research Programme Scientific Symposium “Land and Water Management for Sustainable Agriculture”, Malawi.

Moyce, W., Mangeya, P., Owen, R.J. & Love, D. (2006). Alluvial aquifers as potential safe water storage in semi arid areas: case study of Lower Mzingwane Catchment, Limpopo Basin, Zimbabwe. Stockholm Water Week, Sweden.

Love, D., Moyce, W. & Ravengai, S. (2006). Livelihood challenges posed by water quality in the Mzingwane and Thuli River Catchments, Zimbabwe. WaterNet/WARFSA/GWP-SA Annual Symposium, Malawi.

Dhliwayo, C., Makurira, H., Mupangwa, W., Love, D. & Twomlow, S. (2006). An on farm comparison of conservation agriculture practices and conventional farmer practices on soil hydrology and maize yield. WaterNet/WARFSA/GWP-SA Annual Symposium, Malawi.

Ngwenya, P.T., Love, D., Mhizha, A. & Twomlow, S. (2006). Effects of grazing management on rangeland soil hydrology, Insiza, Zimbabwe. WaterNet/WARFSA/GWP-SA Annual Symposium, Malawi.

Kileshye J.M., Mazvimavi, D., Love, D. & Mul, M. (2006). Effects of dams on river flows of Insiza River, Limpopo Basin Zimbabwe. Stockholm Water Week, Sweden.

Nyabeze, W., Gumbo, B. & Love, D. (2006). Olifants river basin: the process of basin closure. Stockholm Water Week, Sweden.

Mupangwa, W., Twomlow, S., Hove, L. & Walker, S. (2006). Effect of mulching and minimum tillage on maize (*Zea mays* L.) yield and water content of clayey and sandy soils. WaterNet/WARFSA/GWP-SA Annual Symposium, Malawi.

Mwenge, J., Rockström, J., Taigbenu, A.E. & Dimes, J. (2006). Rainwater harvesting to enhance water productivity of rainfed agriculture in the semi-arid Zimbabwe. WaterNet/WARFSA/GWP-SA Annual Symposium, Malawi.

Ncube, M. & Taigbenu, A.E. (2006). The impact of land cover and land use on the hydrologic response of the Olifants. WaterNet/WARFSA/GWP-SA Annual Symposium, Malawi.

Magombeyi, M., Taigbenu, A.E., Rollin, D. (2006). Integrating hydrological and socio-economic aspects for sustainable catchment management: needs and opportunities. WaterNet/WARFSA/GWP-SA Annual Symposium, Malawi.

Magombeyi, M., Rollin, D. & Lankford, B. (2006). The use of the river basin game as a tool for the implementation of the Waternet CP project in South Africa. WaterNet/WARFSA/GWP-SA Annual Symposium, Malawi.

Vilanculos, A., Mhizha, A. & Kaseke, E. (2006). Towards improving flood forecasting and early warning systems through integrated technology in the Limpopo Basin. WaterNet/WARFSA/GWP-SA Annual Symposium, Malawi.

Mabiza, C., Van der Zaag, P., Manzungu, E. & Ahlers, R. (2006). Community-based water resource management institutions: perspectives from the Mzingwane catchment, Zimbabwe. WaterNet/WARFSA/GWP-SA Annual Symposium, Malawi.

Sithole, P. (2006). Mitigating risk, building social capital and crafting livelihoods strategies in Gwanda (Mzingwane, Zimbabwe): a synopsis on water, gender and institutions. WaterNet/WARFSA/GWP-SA Annual Symposium, Malawi.

## *Thesis*

Kileshye Onema, J.-M (2004). A hydrological assessment of land use changes and human's effects on water resources in semi-arid Zimbabwe: the case of the Insiza sub-catchment. University of Zimbabwe, Department of Civil Engineering, M.Sc. Water Resources Engineering and Management.

Maisiri, N. (2004). An on-farm evaluation of the effects of low cost drip irrigation on water and crop productivity, compared to conventional surface irrigation system. University of Zimbabwe, Department of Civil Engineering, M.Sc. Water Resources Engineering and Management.

Mwenge Kahinda, J.-M. (2004). Water productivity and yield gap analysis of water harvesting systems in the semi-arid Mzingwane catchment, Zimbabwe. University of Zimbabwe, Department of Civil Engineering, M.Sc. Water Resources Engineering and Management.

Murata, R. (2005). Access to water for Improved Rural Livelihoods: An investigation of the perspectives, experiences and strategies of orphans and other vulnerable children: a case study of Insiza District Mzingwane Catchment. University of Zimbabwe, Department of Civil Engineering, M.Sc. Integrated Water Resources Management.

Moyo, B.(2005). Impact And Adaptation Of Climate Variability On Water Supply Reservoir yields For The City Of Bulawayo. (Mzingwane Catchment). University of Zimbabwe, Department of Civil Engineering, M.Sc. Water Resources Engineering and Management.

Moyo, R.(2005). . Impact and sustainability of low cost drip kits, in the semi-arid lower Mzingwane subcatchment, Limpopo Basin, Zimbabwe. University of Zimbabwe, Department of Civil Engineering, M.Sc. Water Resources Engineering and Management.

Munamati, M.(2005). Cultivating livelihoods: an assessment of water allocation and management practices in small-scale irrigation schemes -case studies in Mzingwane Catchment. University of Zimbabwe, Department of Civil Engineering, M.Sc. Integrated Water Resources Management.

Ntsheme, O.(2005). A survey of current on-farm agricultural water management practices in Olifants Catchment – a diagnostic of quaternary catchment B72A. University of Zimbabwe, Department of Civil Engineering, M.Sc. Water Resources Engineering and Management.

Woltering, L. (2005). Estimating the influence of on-farm Conservation Practices on the Water Balance, Case of the Mzinyathini Catchment in Zimbabwe. Delft University of Technology, Faculty of Civil Engineering, M.Sc.

- Nare, L.(2006). Involvement of stakeholders in the water quality monitoring and surveillance system: the case of Mzingwane Catchment. University of Zimbabwe, Department of Civil Engineering, MSc dissertation.
- Panesar, J.(2006). The nexus between formal organizations and informal networks from a gender perspective: a case study from South Africa. University of Guelph Faculty of Graduate Studies, MSc dissertation.
- Dhliwayo, C.(2006). On farm evaluation of the influence of different conservation agriculture practices on infiltration in rainfed agriculture, compared to conventional farming. University of Zimbabwe, Department of Civil Engineering, M.Sc. Water Resources Engineering and Management.
- Moyo, L.(2006). Assessment of the soil water management practices for increased seasonal rain water productivity to mitigate against climatic risks. University of Zimbabwe, Department of Civil Engineering, M.Sc. Water Resources Engineering and Management.
- Ngwenya, P.T.(2006). Effect of soil degradation from grazing pressure on rangeland soil hydrology. University of Zimbabwe, Department of Civil Engineering, M.Sc. Integrated Water Resources Management.
- Vilanculos, A.(2006). Towards improving flood forecasting and early warning systems through integrated technology in the Limpopo basin. University of Zimbabwe, Department of Civil Engineering, M.Sc. Integrated Water Resources Management.
- Busane Basima, L.(2005). An assessment of plankton diversity as a water quality indicator in small man-made reservoirs in the Mzingwane Catchment, Limpopo Basin, Zimbabwe. University of Zimbabwe, Department of Civil Engineering, M.Sc. Integrated Water Resources Management.
- Mpho, T.(2005). Analytic Description of Indigenous water resources management practice and its impact on rural livelihoods in the Limpopo Basin in Botswana. University of Zimbabwe, Department of Civil Engineering, M.Sc. Integrated Water Resources Management.
- Saunyama, T.(2005). Estimation of small reservoir storage capacities in Limpopo Basin using geographical information systems (GIS) and remotely sensed surface areas: a case of Mzingwane Catchment. University of Zimbabwe, Department of Civil Engineering, M.Sc. Integrated Water Resources Management.
- Twikirize, D.(2005). An assessment of traditional water management practices and their implications for improved water governance in the Limpopo Basin: c case of the Sibasa Dam in Mzingwane Catchment, Zimbabwe. University of Zimbabwe, Department of Civil Engineering, M.Sc. Integrated Water Resources Management.

Mudaca, J.D.(2005). Determinação do volume de água complementar a irrigação para agricultura de sequeiro na região de Chókwè. (Irrigation needs for supplementary irrigation in Chókwè). Eduardo Mondlane University, Department of Rural Engineering, Licentiate Thesis.

Ibraimo, N.A.(2005). Estratégias de gestão de água em situações de suficiência e insuficiência de água para a produção de tomate e repolho no regadio de Chókwè (Water management strategies for vegetable production in Chókwè, when water is a limiting factor). Eduardo Mondlane University, Department of Rural Engineering, Licentiate Thesis.

Almeida, E. (2005). Análise do Efeito da Capacidade de Armazenamento de Água dos Solos no Rendimento do milho em Sequeiro na Região de Chókwè. (Effect of soil water storage capacity on maize yield in Chókwè). Eduardo Mondlane University, Department of Rural Engineering, Licentiate Thesis.

### ***Training Materials***

Jacobsen, T.(2004). Integrated Groundwater and Surface Water Modelling A hands-on introduction to MIKE SHE. Project partners.

### ***Brochures***

Love, D. & Jonker, L.(2004). The challenge of integrated water resource management for improved rural livelihoods in the Limpopo Basin – WaterNet’s first network research program. WaterNet.

## **PN23 Resource Management for sustainable Livelihood**

### ***Papers***

Pant, D. & Shrestha, P. (2007). Institutional Practices for the Management of Natural Resources in Begnas Watershed. IWMI, Nepal.

Upadhyay, V. (2006). Water-Forest Management, Law And Policy In Uttaranchal: Issues, Constraints, Opportunities.

Raj Sharma, K., Bhatta, B. & Deva, O.P. (2006). Review of Policy, Legal and Institutional Provisions for the Management of Natural Resources in Nepal. Institute of Water and Human Resource Development (IWHRD).

## **PN24 Livelihood Resilience in Dry Land Areas**

### ***Papers***

Milani et al (2007). Review report on soil resources in KRB.  
Milani et al (2007). Review paper on nutrient flows.  
Sabaghpour et al(2007). Draft report of the first year agronomy research  
De Pauw, Ghaffari, Ghassemi (2007). Draft report and final AEZ maps for the whole basin (jointly with PN 8).  
Norouzi et al.(2007). Innovation report (draft)  
Norouzi et al.(2007). Draft review report on sediment loads in upper KRB.  
Porhemmat, Araste et al.(2007). Report of rapid assessment of water resources in Honam and Merek  
Porhemmat, et al.(2007). Review on hydrology in upper KRB (in Persian).  
Porhemmat, et al.(2007). Report on the selection of the hydrology monitoring sites.

### ***Training Materials***

A.Aw-Hassan (2006). Livelihood analysis  
A.Mirghasemi (2006). GIS

### ***Web site:***

<http://www.karkheh-cp-icarda.org> soon to become active again

## **PN 25 Companion Modeling:**

### ***Journal Article***

Barnaud, C., P. Promburom, F. Bousquet & G. Trebuil (2006). Companion modelling to facilitate collective land management by Akha villagers in upper northern Thailand. J. World Assoc. Soil Water Conserv., J1: 38-54.

### ***Papers***

Hoanh, C.T., Dung, L.C., Le Page, C. & Bousquet, F. (2006). "Facilitating conflicts between aquaculture and agriculture at different management levels: lessons from role-playing games with farmers in the Mekong delta, Vietnam" International Forum on Water and Food. Vientiane/Lao PDR.

Dung, L.C., Le Page, C. & Hoanh, C.T. (2007). "Participatory simulation of competing between aquacultural and agricultural land uses in Bac Lieu Province, Mekong Delta, Vietnam". International Conference on Simulation & Modeling: Towards sustainable livelihood and environment. Asimmod Conference in Chiangmai, Thailand.

Naivinit, W., Le Page, C., Thongnoi, M., Trébuil, G. & Srisombat, N. (2006). "Role-playing games to understand interactions between multiple water & land use systems and labour migrations in Lam Dome Yai Watershed, lower northeast Thailand." International Forum on Water and Food. Vientiane/Lao PDR.

Barnaud, C., Van Paassen, A., Trébuil, G. & Promburom, T. (2006). Power relations and participatory water management: lessons from a companion modelling experiment in northern Thailand. Communication for the international forum of the CGIAR Challenge Program on Water & Food, 12-17 Novembre 2006, Vientiane, Laos. 20p.

Barnaud, C., Dumrongrojwatthana, C., Marie, J., Le Page, C. & Trébuil, G. (2006). Initial Diagnostic Analysis for Companion Modelling to Accommodate Multiple Interests in Upper Watershed Management. Paper presented at the International Conference on Sustainable sloping lands and watershed management (SSLWM 2006) organized by NAFRI, 12-15 December 2006, Luang Prabang, Lao PDR.

Barnaud, C., Promburom, T., Trébuil, G. & Bousquet, F. (2007). Using simple models to accommodate multiple interests in water management : a companion modelling approach. Paper presented at the international conference on Asian Simulation and Modelling (ASIMMOD 2007), 9-11 January 2007, Chiang Mai, Thailand.

## **PN22 Environmental services promoting rural development**

### *Journal Article*

Rubiano, J., Quintero, M., Estrada, R. & Moreno, A. (2006). Multiscale Analysis for Promoting Integrated Watershed Management. *Water International* Vol 31, No.3. Forthcoming.

### *Papers*

Estrada, R. & Quintero, M. (2005). Paper prepared and presented in the 18th Symposium of the International Farming System Association (IFSA) with FAO and IFAD. Rome, Italy. 31 October – 4 November 2005.

Quintero, M. & Estrada, R. (2006). Abstract prepared and presented in the World Water Week 2006. Published in the conference proceedings (Abstract Volume). 6

Westerman, O. & Vega, A. (2006). Abstract prepared and presented in the World Water Week 2006. Published in the conference proceedings (Abstract Volume).

Project Team (2005). Manejo técnico, aprovechamiento comercial de la tara y generación de empleo con la organización de mujeres del centro poblado la conga-kuntur wuasi y el caserío cerro blanco, en la cuenca del Jequetepeque- Perú" CEDEPAS & Cuenas Andinas.

Westermann, O. & Arevalo, P. 2006 (DIIS). Analysis of Poverty Profiles in the Tunari Cordillera (Bolivia) (In Spanish).

Reinner & Morales, (2007). Stakeholders analysis of the Jequetepeque watershed. GTZ.

Morales, (2007). Analysis of legal framework for the implementation of PES in Peru. GTZ.

Valdera, G. (2006). Risk analysis for the Jequetepeque watershed.

Ascencio, F. (2006). Socioeconomic analysis of the Jequetepeque watershed. GTZ.

Westermann, O. (2006). Natural Resources access and management poverty, and pro-poor options for implementing PES. DIIS.

Quintero, M. Estrada, R. & Giron, E. (2005). Mecanismos de Pago por Servicios Ambientales en la Región de Moyabamba (Perú). Estudio Piloto: Microcuencas Miskiyacu y Rumiyaçu. Cali, Colombia.

Maya, D., Castillo, D., Ramos, P, Roldan, A. (2004). Analysis of collective action for watershed management. Study case: Fuquene Watershed.

CDROM GTZ. Andean Watersheds Project. (2005). Participatory Analysis of poverty profiles based on community perceptions. Altomayo watershed.

Rubiano, J., Soto, V., Suarez, A. & Giron, E. (2005). Identifying the sources of Nitrates and phosphates in Fuquene Lake, the use of natural stable isotopes.

### ***Training Materials***

Materials prepared for the distance education course “Manejo Integrado de Cuencas” [Integrated Watershed Management] organized by the GTZ. Participants were from Peruvian, Ecuadorian, Colombian and Bolivian institutions.

Materials prepared for the course “Optimization models and externalities valuation” organized by GTZ/CEDEPAS/WWF/CARE and held in Cajamarca, Peru.

### ***Book***

Quintero, M. Estrada, R., & García, J. (2006). Model of optimization for ex-ante evaluation of land use alternatives and measurement of environmental externalities (ECOSAUT) (Spanish version).

Quintero, M. & Estrada, R.D. (2006). “Payment Schemes for Environmental Services in Latin America and their Prospects in the Andes: A Vision from Practice” (In Spanish).

Moreno, A & Renner, I. (2006) (Eds). Integrated Watershed Management. The experience of the Andean Watersheds Project (In Spanish )

Pernett, X. (2006). Process to quantify and interpret the physical and chemical soil properties that determine water-related functions and nutrient storage. The Fuquene watershed case study.

Aspajo, F. (2006). Mechanism of Payment for Environmental Services in Moyobamba City.

Velez, R. (2006). Processes of information dissemination: experiences from the Regional Andean Watershed Project.

Renner, I. (2006). Cooperative investment projects to internalize environmental externalities.

Quintero, M. & Otero, W. (2006). Financing mechanism to promote conservation agriculture with small farmers of the Fuquene watershed. Design, applicability and benefits.

### ***Power Point Presentation***

Quintero, M., Estrada, R., Rubiano, J., & Giron, E. (2005). Measurement and valuation of water-related environmental services. Oral presentation presented at the special session "Payment for Environmental Services" in the "Water for food and Ecosystems" FAO-Netherlands conference. (The Hague, Netherlands, January 31 to February 5th, 2005).

Quintero, M. (2005). Experience of Andean Watershed Project in the Fuquene watershed (Colombia). Presented at the Fuquene stakeholders meeting organized by the CPWF PN20 and held in Bogotá, Colombia.

Estrada, R. & Quintero, M. (2005). Economic compensation for environmental services and its role in rural income equity. Fuquene (Col) and Altomayo (Peru) study cases. Presented at the Latin-American Symposium of Farming Systems (IESA-AL VI): The Valuation of goods and environmental services. Manizales, Colombia.

Quintero, M. & Estrada, R. (2005). Economic compensation for environmental services in Mayo River basin (Peru). Conceptual framework and methodological approach. Oral presentation presented to the regional and local government of Moyabamba province, Peru. Moyabamba, Perú.

Quintero, M., Moreno, A. y Estrada, R.D. (2006). Environmental Externalities to Change Rural Development Dynamics. Oral presentation presented at workshop "Payment for environmental services (PES) approaches to contribute to equitable and sustainable management of soil and water in upper catchments". WFCP-TSBF. Nairobi . June 27-29, 2006.

Otero, W., Quintero, M. y Estrada, R.D. (2006). Experience of financing mechanisms to promote conservation agriculture. Oral presentation presented in the closing event of the Andean Watershed Project (GTZ) held at CIAT. Cali. October 2006.

Quintero, M. & Estrada, R.D. (2006). Tools and approaches to guide land use planning processes in Colombian watersheds. Oral presentation presented at an event with local stakeholders organized by CORPOCALDAS. November 2006.

Quintero, M. (2006). Analysis of hydrological services to guide land use interventions in two Andean watersheds: Fuquene and Pimampiro. Oral presentation presented at the workshop of the project "Making Nature Count: enhancing payments for environmental service initiatives in Ecuador and Colombia" lead by CIFOR and Ohio University. The workshop was held in Ecuador on January 15-17, 2007.

Moreno, A. (2007). Lessons learnt in PES schemes formulation. Oral presentation presented at the workshop of the project "Making Nature Count: enhancing payments for environmental service initiatives in Ecuador and Colombia" lead by CIFOR and Ohio University. The workshop was held in Ecuador on January 15-17, 2007.

Moreno, A. (2006). Experiences of PES in Peru and Colombia. Workshop "Compensation for Environmental Services and Poor Alleviation in Latin America" funded by IDRC and organized by Randi-Randi and other regional organizations

Moreno, A. (2006). 3 Presentations for encouraging the creation of a PES committee in Altomayo and socialization of analysis results. Presentations presented in Moyobamba during different meetings with local and regional government representatives and civil society leaders.

Moreno, A. (2006). Watershed management and PES (2 presentations). Presentations presented in Moyobamba during different meetings with local and regional government representatives and civil society leaders.

Moreno, A. (2006). Watershed management and formulation of PES schemes. Presented in Chilate (Peru), during a meeting of the PES project lead by WWF-CARE.

Moreno, A. (2006). Experiences of PES implementation in Peru. Presented during a project event held in Cali, Colombia. All project partners attended the workshop.

Moreno, A. (2006). Actions towards PES as part of the Andean Watersheds Project. Presented at the Annual Review 2006 of the International Potato Center- CIP

Moreno, A. (2006). PES and conflict resolution in watersheds. Presented at an InWent event (German capacity building program in LaC) held in Pacasmayo, Peru.

### ***Policy Brief***

Ramirez, M.C. (Ed). Quintero, M. & Estrada, R. (2006). Payment for Environmental Services. Looking for incentives to promote sustainable use of RRNN and to generate new rural development dynamics.(In Spanish)

### ***Web Site***

<http://www.redcapa.org.br/cuencasandinass>

<http://www.condesan.org/Andean/projects.htm>

<http://www.redcapa.org.br/cuencas/boletines-anteriores.htm>

### **PN28 MUS**

#### ***Paper***

Moriarty, P., Fonseca, C., Smits, S. & Schouten, T. (2005). Background Paper for the Symposium: Learning Alliances for scaling up innovative approaches in the Water and Sanitation sector.

Penning de Vries, F., Boelee, E., Butterworth, J., Cousins, T., Duran, A., Hagmann, J., Mintesinot, B., Morardet, S., Moriarty, P.B., Restrepo, I., Ruaysoongnern, S., Scott, C., Suryarwanshi, S., Smits, S., Van Koppen, B. & Yoder, B. (2005). Learning Alliances for the broad implementation of an integrated approach to multiple sources, multiple uses and multiple users of water. Manuscript for the International Conference on 'Integrated Assessment of Water Resources and Global Change: A North-South Analysis', February 2005 Bonn Germany (<http://www.zef.de/watershed2005>). Submitted 25/2/2005 revised 31/8/2005.

Van Koppen, B., Moriarty, P. & Boelee, E. (2006). Multiple-Use Water Services to Advance the Millennium Development Goals. IWMI Research Report No. 98.

### ***Web Site***

[www.musproject.net](http://www.musproject.net)

There are more documents in the website and according to the last report, some are pending to be uploaded.

We are waiting for the list of documents from the PL.