



## Sustainable Agriculture and Natural Resource Management Collaborative Research Support Program

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### Trip Report: Bolivia and Peru

22 June – 12 July 2007

Corinne Valdivia, University of Missouri-Columbia  
and LTRA-4 Team

#### Purposes of Trip:

- Attend the global SANREM CRSP meeting in Cochabamba (Valdivia, Seth, Motavalli, Gilles, Garrett, Turin, J. Flora and C. Flora).
- Participate in a symposium on agrarian change in the Altiplano at the Universidad Mayor de San Andres (Seth, Garrett, Motavalli, Gilles, J. Flora and C. Flora, C. Valdivia).
- Participate in annual LTRA4 project research meeting to develop work plans for Year 3 of the program (all people listed).
- Meet and work with Peru research team in Puno (C. Valdivia, J. Flora, C. Flora) and Lima (C. Valdivia.)
- Coordinate with the International Potato Center potential landscape research.

Sites Visited: Cochabamba, Bolivia; La Paz, Bolivia; Ancoraimas and Umala, Bolivia; Santa Maria and Apopata Communities in Puno Peru; Puno City in Peru (only Jan Flora, Cornelia Flora and Corinne Valdivia)) and Lima (only Corinne Valdivia)

#### Names of Travelers:

Clovis Bailon, UNALM (June 28-July 2), Jenny Choque, UNALM, (June 28-July 2), Pedro Condor, UNALM (June 28-July 2), Cornelia Flora, ISU (June 25-July 9), Jan Flora, ISU (June 25-July 9), Karen Garrett, KSU (June 25, July 1), Jere Gilles, MU (June 25-July 6), Peter Motavalli, MU (June 25-July 3), Anji Seth, UConn (June 26-July 3), Cecilia Turin, UNALM (June 28-July 2), Corinne Valdivia, MU (June 22-July 12)

#### Description of Activities:

C. Valdivia, Seth, Motavalli, J. & C. Flora, Garrett and Gilles participated in the global SANREM CRSP meeting in Cochabamba, and met with the External Evaluation Panel, along with Bolivian collaborators E. Jimenez, M.A. Gonzales, J. Cusicanqui, E. Carrasco.

Valdivia, Seth, Motavalli, J. Flora, K. Garrett, C. Flora and J. Gilles presented papers at the International Symposium on Global Change organized by the Universidad Mayor de San Andres

on July 28 and 29, immediately after the Cochabamba meetings. More than 80 faculty, students and government officials attended this two day event. Peruvian colleagues participated in the symposium.

The annual meeting of the LTRA4 team took place June 30-July 2. Dr. Maria Elisa Christie participated in our meetings. A field day at two research sites took place on Sunday July 1. In Umala we had the opportunity to discuss with members of the 4 communities their perspectives about project activities, and in Ancoraimes we participated in a field day where the community groups (from Cohani, Chinchaya, Chojnapata, and Calahuancane) showcased their work on soils, pests, landscape and diversity of tuber varieties. On July 3 we had our stakeholder meeting with representatives from Bolivian institutions working in the field of rural development and climate.

At our annual meeting work plans for 2007-2008 were developed. The results of this activity were submitted to the ME as our annual work plan for year 3. In addition to the development of work plans, a list of “products” in terms of publications and presentations to be produced as a result of the past year’s activities. We also had the opportunity to review the EEP comments in order to inform work plan activities for year 3 and develop a response, in terms of clarifications as well as actions to be implemented.

The stakeholders meeting on July 3 included representatives from the Management Entity (Christie and Moore), along with members of SENAMHI (Weather and Climate Forecast Organization of Bolivia), PNCC (the National Program of Climate Change in Bolivia), CIPCA (Research and Promotion Center of Peasants), Save the Children, CIDES (Graduate Social Sciences Program of the Universidad Mayor San Andres).

Meetings were held in Puno and Lima with collaborating scientists to introduce Dr. Keith Moore to the Puno team of researchers. A visit to the research sites, as well as a meeting in Lima with investigators was led by Cecilia Turin, Silvana Vargas (director of the Instituto de la Pequeña Producción Sustentable) and Edith Fernandez Baca. We discussed change in co-investigators, as Cecilia Turin was leaving to pursue her doctoral degree in the USA. and the coordination of activities for year 3 in Peru. .

### **Suggestions and Recommendations:**

- The main results of these meetings and activities were:
- Implement exchange visits for training and research planning between Peruvian and Bolivian investigators during year three.
- Coordinate with Dr. Heatwole’s cross cutting watershed research in Ancoraimes and acquire images for landscape research in all sites. A first step is to use images to develop participatory maps of vulnerability with each participating community. Landscape research activities to understand market and climate drivers responds to recommendations of the EEP. We agreed to collaborate with the International Potato Center and UMSA on landscape research, specifically with professor Fredy Navia, supporting his MS and thesis research.
- We will increase coordination and collaboration with SENAMHI investigators, Tesoro Michel and Enrique Peñarieta for two main reasons. First our agroclimatologist in Bolivia, Dr. Magali Garcia is leaving for a post-doc at Idaho in the US. And second, because

SENAMHI is starting to model climate change and feels can benefit from our research program and LTRA4 will benefit from collaborating on data analysis for extreme events in the Altiplano.

- We agreed to develop a calendar of activities for field studies in year 3, to share new knowledge.
- At the annual meeting our evaluation of participation in research team pointed to constraints in the participation of women in the research groups. To address this two projects were agreed to, knowledge to action and gender. Research will be implemented across all sites strengthening the pool of activities that can be compared across regions.
- The Peru team determined that a theme for comparison across regions is soil quality. The community of Santa Maria in Puno was selected for this research. This will be coordinated in year 3.
- From the stakeholder meetings discussion focused on the need to develop a platform (a stakeholder discussion group) on climate change adaptation in rural communities of the Andes.
- Research coordination in Peru will be a team effort of Drs. Fernandez Baca and Vargas. Dr. Fernandez Baca will lead research on advocacy coalitions in Puno, as well as participate in the Innovation and Sustainable Agriculture graduate programs at La Molina, working with students funded by the SANREM CRSP.
- Valdivia agreed with Dr. Roberto Quiroz, Dr. Edith Fernandez Baca and Percy Zorogastua to train and provide support in the development of landscape maps for the Peru communities in year 3.

#### **List of Contacts Made:**

Name	Title/Organization	Contact Info (address, phone, email)
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Abbreviations:

CIDES	Center for Research and Development Studies
CIPCA	Centro de Investigacion y Participacion del Campesinado
IPPS	Instituto de la Pequena Produccion Sustentable
MU	University of Missouri
PNCC	Programa Nacional de Cambio Climatico
SENAMHI	Servicio Nacional de Hidrologia y Metereologia
UC	Universidad de la Cordillera
UConn	University of Connecticut.
UNALM	Universidad Nacional Agraria La Molina
UMSA	Universidad Mayor San Andres