

**Name:** Ruben Dario Estrada

**Position Title:** Consultan

**AppointmentDate:** January 2005

**Specialty Area:** Agronomy/animal production/economics

**Current time allocation:** 20%

Project	FTE
PE-2	20%

**Education:**

1970 B.s.. Universidad Nacional de Colombia. Agronomy with emphasis in Animal Production Systems

1972 M. Sc. Universidad del Valle. Economics.

Country experience: Colombia, Peru, Ecuador, Honduras, Venezuela, Uruguay, Argentina, Costa Rica, Bolivia, Nicaragua, Mexico, Brazil.

**Positions held (since terminal degree):**

1997 to present . Leader of Policy Analysis. The Consortium for the Sustainable Development of Andean Eco-region (CONDESAN) – International Potato Center (CIP)

Conducted environmental externalities analysis for forty watersheds in the Andean region as a mechanism to reduce poverty.

Proposed a methodological approach to include environmental degradation cost in national accounts.

Analyze the trade off between equity, sustainability and productivity for Andean region.

Conducted pre-feasibility studies for investment projects.

Lead a business fund to promote alliances among entrepreneurs and local producers in Andean basins.

1992-1997 Research Associate. International Center for Tropical Agriculture CIAT – International Potato Center. Hillsides Program.

Conducted specific studies to establish: Relationship between poverty increments, agricultural incomes, and natural resource degradation in the Andes mountain range; the magnitude for environmental externalities in specific basins, quality life assessment through local perceptions, base lines for policy impact assessment, and risk analysis with climatic and economic factors.

1985-1990 Liaison Officer of the Research Program of Agricultural Systems (Programa de Investigación en Sistemas Agropuecuarios) in Latin America. International Development Research Center (IDRC) of Canada. Primary responsible for research, transfer and adoption project at Puno (Perú).

1971-1985 Research Associate. International Center for Tropical Agriculture. Program of Tropical Pastures. Economic assessment: Adoption and transfer technology impact of new varieties of rice, corn, pastures and yucca. Economic assessment: Distribution of benefits among producers and consumers.

**Research Responsibilities (2002 – present):**

Leader of Policy Analysis. The Consortium for the Sustainable Development of Andean Eco-region (CONDESAN) – International Potato Center (CIP)

Conducted environmental externalities analysis for forty watersheds in the Andean region as a mechanism to reduce poverty.

Proposed a methodological approach to include environmental degradation cost in national accounts.  
Analyze the trade off between equity, sustainability and productivity for Andean region.  
Conducted pre-feasibility studies for investment projects.  
Lead a business fund to promote alliances among entrepreneurs and local producers in Andean basins.

## **OTHER SELECTED EXPERIENCE**

GTZ Consultant (2002) for Watershed Analysis.  
KFW Consultant for trade off studies between sustainability, equity and productivity factors. 2001.  
World Bank Consultant (2001). Conducted a specific study related with use of private funds for agricultural research.  
BID Consultant (2000) for: Policy Analysis required in Andean region for rural development and impact assessment of policies on agricultural system economics.  
Validation of methodologies applied for economic incentives in watersheds. It was conducted jointly with the Ministry of Environment in Colombia.  
ILRI Consultant (1999) for ex-ante analysis of livestock systems using optimization models.  
FAO Consultant (1998) for Pre-feasibility analysis of sustainable production systems projects in Colombian Andes.  
FIDA Consultant (1994 – 1997) for Identification of strategies to include Natural Resource Management in development projects. Analysis of water and soil management and its relation with poverty alleviation in a southern region of Peru, Ecuador, Bolivia, Guatemala and Honduras.

### **Graduate Student Advisement (2002 – present):**

### **Refereed journal publications (2002-2006)**

Rubiano, J., Quintero, M, Estrada, R.D., Moreno, A. 2005. Multiscale Analysis for Promoting Integrated Watershed Management.. *Agriculture, Ecosystems & Environment Journal*. Special Issue on Scales in Water Resources Management. (Forthcoming).

Quintero, M, Estrada, R., Rubiano, J., & Giron, E. 2005. Measurement and valuation of water-related environmental services. Oral presentation presented at “Water for food and Ecosystems”FAONetherlands conference. (The Hague, Netherlands, January 31 to February 5th,2005).

Estrada, R. & Quintero, M. 2004. El Agua: Elemento fundamental para generar una nueva dinámica de desarrollo rural (Water: A fundamental element to generate changes in rural development). In: Pérez, E. & Farra, A. (Eds). *Desarrollo Rural y Nueva Ruralidad en América Latina y la Unión Europea*. 2004.Universidad Javeriana. CIRAD. Bogotá, Colombia.

Quintero, M. & Estrada, R. 2004. Evaluación de alternativas de uso de la tierra y valoración de externalidades ambientales. [Evaluation of land use alternatives and valuation of environmental externalities]. Oral presentation presented at the seminar “Experiencias y métodos de manejo de cuencas y su contribución al desarrollo rural de los Andes”. [“Experiences and Methods of River Basin Management and their Contribution to Rural Development in the Andes – Challenges and Opportunities for Achieving Greater Impacts”] CONDESAN - Water & Food Challenge Program – IFAD – CIPUniversidad Javeriana. (Bogotá, December 8-10, 2004).

Rubiano, J, Quintero, M., Estrada, R.D, Moreno, A. 2004. Conflict resolution by means of spatial information use and collective action. Oral presentation presented at The World Water Week. (Stockholm, August 16-21, 2004)

Agudelo, C., Rivera, B., Tapasco, J., Estrada, R. 2003. Designing policies to reduce rural poverty and environmental degradation in a hillside zone of the Colombian Andes. *World Development*. 31 (11) 1921:1931.

Estrada, R.D. & Quintero, M. 2003. Propuesta Metodológica para el análisis de cuenca: Una alternativa para corregir las deficiencias detectadas en la implementación de pago por servicios ambientales. [Methodological approach for watershed analysis: an alternative to correct the implementation of payment mechanisms for environmental services]. Paper and oral presentation presented at the Congreso Latinoamericano de Cuencas Andinas. (Arequipa, Peru. September 2003)

Estrada, R.D., Quintero, M., Pernet, X. & Giron, E. 2003. “Estimación de impacto de desastres causados por heladas y sequías en los sistemas productivos y en las externalidades ambientales de las cuencas andinas” [Impact assessment of climatic changes on production systems and environmental externalities]. Paper and oral presentation presented at the seminar “Revisión y valoración de experiencias en análisis de riesgo”. (Piura, Perú. June 3-5, 2003)

Estrada.R.D. 2003. Incorporación de la depreciación de los recursos naturales en las cuentas nacionales. Una primera aproximación basada en los análisis por unidad de respuesta hidrológica. [Incorporation of environmental degradation costs in the national accounts] Oral and paper presented at the Congreso Latinoamericano de Cuencas Andinas [Latin-American Congress of Andean Watersheds]. Arequipa, Perú

Estrada R.D.2001. Socializando el análisis de cuenca para un mejor manejo de los recursos naturales. Estudio detallado de 33 cuencas en los andes colombianos. [Dissemination of watersheds analysis to enhance natural resource management. Study of 33 Colombian watersheds]. CD-ROM. Ministerio del Ambiente de Colombia – CONDESAN Publication 5:2000.

Estrada, R.D., Posner, J. 2001. The watershed as an organizing principle for research and development: An evaluation of experience in the Andean Ecoregion. *Mountain Research and Development*. 21:(2) 123-127.

Estrada,R.D. Posner J. 2001. El fondo CONDESAN empresarial. Alianzas estratégicas para atacar la pobreza y la degradación ambiental en los Andes [CONDESAN Fund for rural entrepreneurs: Strategic alliances to alleviate poverty and environmental degradation]. Internal publication. CONDESAN. 48p.

Estrada,R.D., Holmann, F. Posada ,R. 2000 Agricultural research private funding .The Colombian Experience.Symposium of Agricultural Research Funding. XXIV Conference of International Association of Agricultural Economist, august 13-18. Berlin, Germany.

**Research Grants (2002 – present):** Cuencas andinas, GTZ 8.000.000 usd. , WFCP \$480.000 usd.