

**Victor E. Cabrera**

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**SUMMARY**

My ultimate career goal is help rural people to improve their life quality through applied bio-physical, socio-economic, and environmental research and extension. Coming from a farm, I have always been linked to the agricultural and rural sectors and my studies and works have always focused on enhancing these systems.

**EDUCATION**

*University of Florida, Gainesville, FL*

**Ph.D. in Interdisciplinary Ecology****2004**

Concentration in Food & Resource Economics

Dissertation: "Modeling North Florida dairy farm management strategies to alleviate ecological impacts under varying climatic conditions: an interdisciplinary approach"

Adviser: Peter E. Hildebrand

*University of Florida, Gainesville, FL*

**M.S. in Agricultural Education and Communication****1999**

Minor in Farming Systems Research & Extension

Thesis: "Farm problems, solutions, and extension programs for small farmers in Cañete, Lima, Peru"

Adviser: Matthew Baker

*Association Internationale des Maisons Familiales Rurales, Madrid-Paris*

**Post Graduate Course in Administration of Agricultural Schools****1995**

Focus on Agricultural Experiential Learning

Adviser: Pedro Puig

*La Molina Agrarian University, Lima, Peru*

**B.S. in Agronomy Sciences & Engineer****1993**

Concentration in Horticultural Production

Thesis: "Análisis de los factores de producción en el cultivo de Espárrago (*Asparagus officinalis*) en la Pampa de Villacuri (Ica)"

Adviser: Francisco Delgado de la Flor

**AWARDS**

Outstanding International Student with GPA 4.0/4.0. University of Florida International Center **1998-2004**

Outstanding Contributions to Farming Systems Research in Nicaragua. La Fundación para el Desarrollo Tecnológico Agropecuario y Forestal de Nicaragua. **2002**

Honor and Membership. The Fraternity of Alfa Zeta **1999**

Achievement and Membership. The Honor Society of Agriculture Gamma, Sigma, Delta **1999**

Certificate of Fellowship. W.K. Kellogg Foundation **1997-1999**

Outstanding International Student in Administration of Agricultural Schools. **1995**

Association Internationale des Maisons Familiales Rurales, Madrid-Paris

Honor Diploma: 2nd/177th Graduation Rank. La Molina Agrarian University **1993**

## WORK EXPERIENCE

*New Mexico State University, Las Cruces, NM*

**Assistant Professor** – Extension Dairy Specialist in the Department of Extension Animal Sciences and Natural Resources (75% Extension) and in the Department of Plant and Environmental Sciences (25% Research) in the College of Agriculture and Home Economics.

2006-

Developing statewide programs to help the dairy industry to meet economic and environmental challenges. Applied research with active participation of dairy producers, advisers, and other stakeholders.

Leading role in the development and dissemination of decision aids such as whole dairy farm simulation modeling of management enterprises, economic and environmental (dual) optimization, and risk management decisions.

Leading role in the integration of multiple disciplines into whole dairy farm decision support systems including livestock, crops, soils, climate, resource management, and economics.

Leading role in the consecution of competitive funding for research, extension, and education.

*University of Miami, Miami, FL*

**Post-Doctoral Research Associate** – with the University of Miami and with the South East Climate Consortium (SECC, <http://secc.coaps.fsu.edu/>)  
Developing farm simulation models using optimization methods to evaluate the value of climate forecast information and risk management decisions under uncertain conditions of climate, prices, and government farm programs.

2004-2006

Collaborating in the development and maintenance of a Web based portal to diffuse climate forecasts and climate-based tools (<http://www.AgClimate.org>).

*University of Florida, Gainesville, FL*

**Teaching Assistant** – to Professor Peter E. Hildebrand in "Economic Analysis of Small Farm Livelihood Systems" (AEB-5167)

1999, 2001-2004

Use and development of linear programming techniques to represent farm systems. Computer labs. Advise students in Projects. Selected lectures. Development of course manual.

**Teaching Assistant** – to Professor Peter E. Hildebrand in "Farming Systems Research & Extension" (AEE 5232)

2002-2004

Design and follow-up of on-farm trials with students. Computer labs. Adaptability Analysis for Agricultural Research.

**Research Assistant** – to Professors James W. Jones in applications of seasonal forecasts for enhancing agricultural and environmental systems  
Simulation of seasonal climate effects on the economics of cow-calf operations in north central Florida.

2001 - 2004

Nutrient flows from dairy operations in north Florida and their environmental and economic impacts according to seasonal climate forecasts.

*Inter-American Development Bank, Lima, Peru*

1999-2001

**Consultant** – developing extension programs and training for small farmers in Cañete, Lima, Peru. Project with the Valle Grande Rural Institute  
Identifying, planning, and implementing extension programs.  
Direct teaching to farmers in the Cañete community  
Collaboration in the development a geographic information system of the 4,800 farms and 24,000 ha in the Cañete Valley, Peru.

Faculty duties in the Valle Grande Agricultural Technical College.

*Valle Grande Rural Institute, Cañete, Lima, Peru*

**Professor** – teaching basic and applied courses in Agricultural Technical College **1994-1997**

20-hour weekly lecturer in a variety of courses, including crops and livestock, agricultural economics, and basic sciences.

In-school and at-home individual advice of 12 students per semester.

Collaboration in the management of residence for students.

*Limatambo Farm, Lurin, Peru*

**Manager** – of 32 ha farm specialized in meat, milk, and horticultural production **1993-1994**

Leading and directing a small farm; including personnel management,

production planning, product marketing, and bank accounts.

#### **INTERNATIONAL TEACHING/CONSULTING EXPERIENCE**

*Inter-American Institute for Global Change Research, Florida-Paraguay*

**Climate Impacts on Paraguay Soybean Yields** **2006**

Research and extension work on ENSO climate impacts on soybean yields in Paraguay.

*Universidad Veracruzana, Mexico*

**Indices for Sustainable Development** **2005**

One-week participation in open Seminar as Lecturer and Panelist.

Using Simulation Modeling to Measure and Compare Sustainability of Systems.

*Universidad de Guayaquil, Ecuador*

**Applied Sustainable Rural Development** **2003**

Two-week course in a modular Master's program.

Theoretical and applied methodologies for rural sustainability.

32 graduate students.

*Universidad Nacional Agraria, Managua, Nicaragua*

**Adaptability Analysis for Small Farm Livelihoods** **2003**

One-week course for university professors and national researchers.

Design, implementation, and analyses of on-farm research.

29 students.

*Fundación para el Desarrollo Tecnológico Agropecuario y Forestal de Nicaragua*

**Adaptability Analysis for Small Farm Livelihoods** **2002**

One-week course for researchers.

Design, implementation, and analyses of on-farm research.

34 students.

*CARITAS del Perú, Huancavelica, Perú*

**Farm Management** **2001**

Two-week course for farmers.

Introduction and use of administrative farm tools.

About 120 students.

*Instituto Nacional de Tecnología Agraria, Managua, Nicaragua*

**Adaptability Analysis Research** **2000**

One-week course for government extension agents

Design, implementation, and analyses of on-farm research.

28 students.

## PUBLICATIONS

- Breuer, N.E., **V.E. Cabrera**, K.T. Ingram, K. Broad, and P.E. Hildebrand. (accepted). AgClimate: A case study in participatory decision support system development. *Climatic Change*.
- Cabrera, V.E.**, S. Jagtap, and P.E. Hildebrand. 2007. Strategies to limit (minimize) nitrogen leaching on dairy farms driven by seasonal climate forecasts. *Agriculture, Ecosystems, and Environment* 122, 479-489.
- Hoogenboom, G., C.W. Fraise, J.W. Jones, K.T. Ingram, J.J. O'Brien, J.G. Bellow, D. Zierden, D.E. Stooksbury, J.O. Paz, A. Garcia y Garcia, L.C. Guerra, D. Letson, N.E. Breuer, **V.E. Cabrera**, L.U. Hatch and C. Roncoli. 2007. Climate-based agricultural risk management tools for Florida, Georgia and Alabama, USA. In: p. 273-278. (M.V.K. Sivakumar and J. Hansen, editors). *Climate Prediction and Agriculture: Advances and Challenges*. Springer, Berlin, Germany.
- Cabrera, V.E.**, Kirksey, R., Mathis, C. 2007. Grazing-N: A Nitrogen Balance Model for Grazing Dairy Heifers and Dry Cows in New Mexico. New Mexico State University Cooperative Extension Service Circular 611, Las Cruces, NM.
- Cabrera, V.E.** 2007. User manual of Grazing-N: A Nitrogen Balance Model for Grazing Dairy Heifers and Dry Cows in New Mexico. New Mexico State University Cooperative Extension Service Guide 209, Las Cruces, NM.
- Cabrera, V.E.**, Hagevoort, R. 2007. Importance of the New Mexico dairy industry. New Mexico State University Cooperative Extension Service Circular 613, Las Cruces, NM.
- Cabrera, V.E.**, Letson, D., Podesta, G. 2007. The value of the climate information when Farm Programs matter. *Agricultural Systems* 93, 25-42.
- Cabrera, V.E.**, Breuer, N.E. and Hildebrand, P.E. 2006. North Florida stakeholder perception toward the use of climate forecast technology, nutrient pollution, and environmental regulations. *Climatic Change* 78, 479-491.
- Cabrera, V.E.**, Fraise, C., Letson, D., Podesta, G., Novak, J. 2006. Impact of climate information in reducing farm risk by selecting crop insurance programs. *Transactions of the ASABE* 49, 1223-1233.
- Fraise, C. W., Bellow, J. G., Breuer, N., **Cabrera, V. E.**, Hatch, L., Hoogenboom, G., Ingram, K., Jones, J. W., O'Brien, J.J., Paz, J., Zierden, D. 2006. AgClimate: A Climate Forecast Information System for Agricultural Risk Management in the Southeastern USA. *Computer and Electronics in Agriculture*, 53, 13-27.
- Cabrera, V.E.**, de Vries, A. and Hildebrand, P.E. 2006. Manure nitrogen production in North Florida dairy farms: a comparison of three models. *Journal of Dairy Science* 89, 1830-1841.
- Cabrera, V.E.**, Hildebrand, P.E., Jones, J.W., Letson, D., and de Vries, A. 2006. An integrated North Florida dairy farm model to reduce environmental impacts under seasonal climate variability. *Agriculture, Ecosystems, and Environment* 113, 82-97.
- Cabrera, V.E.**, Breuer, N.E. Hildebrand, P.E., and Letson, D. 2005. The dynamic north-Florida dairy farm model: a user-friendly computerized tool for increasing profits while minimizing environmental impacts. *Computers and Electronics in Agriculture* 49, 286-308.
- Cabrera, V.E.**, Hildebrand, P.E. and Jones, J.W. 2005. Modeling the effect of household composition on the welfare of limited-resource farmers in Coastal Cañete, Peru. *Agricultural Systems* 86, 207-222.

- Breuer, N, Canales, G., **Cabrera, V.E.**, Hildebrand, P.E., Galindo, S. Kulstad, T. Manganyi, T. Morris, M. Ramos, L., Stonebrook, E. Toro, D. 2005. Potential Applications of Seasonal Climate Forecasts for Water Management and Extension Agent Perceptions of Water Issues in South Florida. The Southeast Climate Consortium Technical Report Series SECC-05-005, Gainesville, FL.
- Cabrera, V.E.**, Letson, D., Podesta, G. 2005. The value of climate information when farm programs matter. The Southeast Climate Consortium Technical Report Series SECC-05-004, Gainesville, FL.
- Cabrera, V.E.**, Breuer, N., Hildebrand, P.E. 2005. Climate-based management to reduce nitrate leaching from dairies in the Suwannee River Basin. University of Florida Cooperative Extension Service Circular 1464. Gainesville, FL.
- Breuer, N., **Cabrera, V.E.**, Hildebrand, P.E., Jones, J.W. 2005. Climate-based management options for north central Florida Beef Cattle Producers. University of Florida Cooperative Extension Service Circular 1476. Gainesville, FL.
- Fraisse, C., Bellow, J., Breuer, N., **Cabrera, V.E.**, Jones, J.W., Ingram, K., Hoogenboom, G. 2005. Strategic plan for the Southeast Climate Consortium extension program. The Southeast Climate Consortium. Technical Report Series 05-02. Gainesville, Florida.
- Barham, J., Gichon, Y., Humphries, S., Rossi, F., Alvira, D., Rios, A. Hildebrand, P.E., **Cabrera, V.E.**, Breuer, N. 2004. Assessment of the format, content, and potential uses of the AgClimate Website and crop yield risk assessment tool by extension agents in north Florida. The Southeast Climate Consortium Technical Report Series SECC-04-01. Gainesville, FL.
- Cabrera, V.E.** 2004. Modeling north-Florida dairy farm management strategies to alleviate ecological impacts under varying climatic conditions: an interdisciplinary approach. Ph.D. Thesis. University of Florida, Gainesville, Florida.
- Cabrera, V.E.**, Hildebrand, P.E. and Jones, J.W. 2004. Modeling the effect of household composition on the welfare of limited-resource farmers in Cañete, Peru. University of Florida Food and Resource Economics Department Staff Paper Series SP 04-01. Gainesville, FL.
- Hildebrand, P.E., Breuer, N.E., **Cabrera, V.E.** and Sullivan, A.J. 2003. Modeling diverse livelihood strategies in rural livelihood systems using ethnographic linear programming. University of Florida, Food and Resource Economics Department, Staff Paper Series, SP 03-05. Gainesville, Florida.
- Hildebrand, P.E. and **Cabrera, V.E.** 2003. Modeling and analyzing small farm livelihood systems with linear programming. University of Florida Food and Resource Economics Department Staff Paper Series SP 03-03. Gainesville, FL.
- Breuer, N.E., **Cabrera, V.E.**, Hildebrand, P.E. and Jones, J.W. 2003. Potential response of north central Florida livestock producers to long-term climate forecasting. The Southeast Climate Consortium Technical Report Series SECC-01-03. Tallahassee, FL.
- Cabrera, V.E.**, and Hildebrand, P.E. 2003. Economic and ecologic assessment of groundwater nitrogen pollution from north-Florida dairy farms: an interdisciplinary approach. University of Florida Food and Resource Economics Department Staff Paper Series SP 03-02. Gainesville, FL.
- Cabrera, V.E.**, and Hildebrand, P.E. 2003. Family dynamics and household welfare in Cañete, Peru. *Agrippa-FAO* 1, 607-615.
- Cabrera, V.E.**, M. Downs, M. Langholtz, A. Mugisha, R. Sandals, A.J. Shriar, and D. Veach. 1999. Potential use of long range climate forecasts by agricultural extension agents in Florida: a Sondeo report. University of Florida Food and Resource Economics Department Staff Paper Series SP 99-09. Gainesville, FL.

**Cabrera, V.E.** 1999. Farm problems, solutions, and extension programs for small farmers in Cañete, Lima, Peru. M.S. Thesis, University of Florida, Gainesville, FL.

**Cabrera, V.E.** 1994. Análisis de los Factores de Producción en el Cultivo de Espárrago (*Asparagus officinalis*) en la Pampa de Villacurí (Perú). Agro-Enfoque IX-66, Lima.

**Cabrera, V.E.** 1993. Análisis de los Factores de Producción en Espárrago en la Pampa de Villacurí, Ica, Perú. B.S. Thesis. Universidad Nacional Agraria La Molina, Lima.

#### **PROCEEDINGS/CONFERENCES**

**Cabrera, V.E.**, Solis, D., Letson, D. 2007. Optimal crop-insurance strategies under climate variability: Contrasting insurer and farmer interests. 2007 American Agricultural Economics Association Annual Meeting, Portland, July 29-August 1, 2007.

**Cabrera, V.E.** 2007. NM-Manure: a seasonal prediction model of manure excretion for lactating dairy cows in New Mexico. ASABE Annual Meeting, Minneapolis, June 18-20, 2007.

**Cabrera, V.E.** 2007. Trends on dairy economic impacts in New Mexico and Texas and consequent decisions. Dairy Management Program. Clovis, NM, April 11, 2007.

**Cabrera, V.E.** 2007. Silage and dairy farming: a synergy for closed loop systems. High Plains Silage Workshop. Clovis, NM, March 22, 2007.

**Cabrera, V.E.** 2006. Prediction of manure excretion by lactating cows in the high plains. NM/TX Highlights Conference. Clovis, October 11, 2006.

Langeveld, J.W.A., Crawford, A., Paine, M., Pinheiro, S., de Boef, W., Kristensen, I.S., Hermansen, J., Dedieu, B., Hildebrand, P., **Cabrera, V.E.**, Jansen, D., Dixon, J. Project setup and learning processes in participative systems oriented research initiatives. 7th European IFSA Symposium, May 2006 Wageningen, The Netherlands.

**Cabrera, V.E.**, Letson, D. Optimal Climate Crop Insurance Strategy: Contrasting Insurer and Farmer Interests. NOAA 2006 Climate Prediction Applications Science Workshop: Research and Applications on Use and Impacts. March 2006, Tucson, Arizona.

Hayes, R., **Cabrera, V.E.**, Baker, M. Impact of Extension in the Cañete Valley of Peru: A Convergence of Spatial, Economical, Statistical and Anecdotal Evidence. Cornell University's 3rd Annual Latin American Studies Program. February 2006, Ithaca, NY.

**Cabrera, V.E.**, Breuer, N.E. Hildebrand, P.E., and Letson, D. The dynamic North Florida dairy farm model: A user-friendly computerized tool for increasing profits while minimizing N leaching under varying climatic conditions. American Farm Bureau Federation, 87<sup>th</sup> Annual Convention. January 2006, Nashville, Tennessee.

**Cabrera, V.E.**, Fraise, C., Letson, D., Podesta, G., Novak, J. Impact of climate information in reducing farm risk by selecting crop insurance programs. Paper accepted to the U.S. Climate Change Science Program Workshop. Climate Science in Support of Decisionmaking. November 2005, Arlington, Virginia.

**Cabrera, V.E.**, Letson, D., Podesta, G. 2005. Climate information to reduce farm risk. The Society for engineering in agricultural, food, and biological systems. ASAE Meeting Presentation Paper Number: 053057. July 2005, Tampa, Florida.

- Cabrera, V.E.** Towards proactive environmental protection: the case of north Florida dairy farms and groundwater nitrogen pollution. Society for Applied Anthropology Annual Meeting. April 2005, Santa Fe, New Mexico.
- Cabrera, V.E.** and Letson, D. The value of climate information when farm programs matter. Climate Prediction Applications Science Workshop Research and Applications on Use and Impacts. March 2005, Columbia University, Palisades, New York.
- Fraisse, C., Bellow, J., Breuer, N., **Cabrera, V.E.**, Hoogenboom, Ingram, K. A vision for the Southeast Climate Consortium Extension Program. Climate Prediction Applications Science Workshop Research and Applications on Use and Impacts. March 2005, Columbia University, Palisades, New York.
- Jones, J.W., Fraisse, C., Hildebrand, P.E., Breuer, N., **Cabrera, V.E.**, O'Brien, J.J. User-driven research and agricultural system decision support. American Association for the Advancement of Science Annual Meeting. February 2005, Washington, D.C.
- Cabrera, V.E.** and Hildebrand, P.E. Economic and ecologic assessment of groundwater nitrogen pollution from north Florida dairy farm systems: an interdisciplinary approach. Sixth IFSA European Symposium of the Farming Systems and Rural Systems Research and Extension. April 2004, Vila Real, Portugal.
- Cabrera, V.E.** Participatory modeling of north Florida dairy farm systems. Society for Applied Anthropology Annual Meeting. March 2004, Dallas, Texas.
- Cabrera, V.E.**, Hildebrand, P.E. and Jones, J.W. El Niño southern oscillation impact on nitrogen leaching in north Florida dairy forage systems. Climate Prediction Applications Science Workshop Research and Applications on Use and Impacts. March 2004, Tallahassee, Florida.
- Breuer, N.E., **Cabrera, V.E.**, Hildebrand, P.E. Continuous stakeholder feedback: improving adoption and user-friendliness of climate variability-based information and tools for livestock production. Climate Prediction Applications Science Workshop Research and Applications on Use and Impacts. March 2004, Tallahassee, Florida.
- Cabrera, V.E.** Economic and ecologic assessment of groundwater nitrogen pollution from north Florida dairy farm systems: an interdisciplinary approach. The 68<sup>th</sup> Annual Meeting of the Florida Academy of Sciences. March 2004, Orlando, Florida.
- Cabrera, V.E.** and Jones, J.W. El Niño Southern Oscillation impact on nitrogen leaching in north Florida dairy farm systems. Biological Systems Simulation Conference. March 2004, Gainesville, Florida.
- Cabrera, V.E.** and Hildebrand, P.E. Modeling family dynamics and household welfare in Cañete, Peru. 17<sup>th</sup> Symposium International Farming Systems Association, November, 2002, Orlando, Florida.
- Cabrera, V.E.**, Breuer, N.E., Hildebrand, P.E. Assessing the impact of long-term climate forecasting on north central Florida livestock producers using linear programming. International Workshop on Regional Integrated Assessment of Climate Impacts. Castelvecchio, September 2002. Pasco, Italy.
- Cabrera, V.E.**, Baker, M. and Hildebrand, P.E. Formative evaluation of Valle Grande Rural Institute. 27<sup>th</sup> National Agricultural Education Research Conference. December 2000, San Diego, California.
- Cabrera, V.E.** Baker, M., Hildebrand, P.E. Farm problems, solutions, and extension programs for small farmers in Cañete, Peru. 16<sup>th</sup> Conference of the Association for International Agricultural and Extension Education. April 2000, Arlington, Virginia.

**Cabrera, V.E.** Modeling diversity within an agricultural community in Peru. 4<sup>th</sup> Biennial Meeting of the North American Chapter, International Farming Systems Association. October 1999, Guelph, Canada.

#### **EXTRAMURAL COMPETITIVE GRANT INITIATIVES**

**Cabrera, V.E.** Angadi, S., Flynn, R, Marsalis, M., Nennich, T., Hagevoort, R. Improving Nutrient Recycling and Irrigation Efficiency of Southern High Plains Dairy Systems by Developing and Adjusting a New Spatial Decision Support System. US\$ 600,000. National Integrated Water Quality Program, CSREES-USDA. Pending.

**Cabrera, V.E.** Kirksey, R., Kawkes, J. Development and dissemination of a dairy risk management tool (DairyRisk) for New Mexico dairy farms. US\$ 240,000. Risk Management Agency, USDA. Pending.

**Cabrera, V.E.** Angadi, S., Hagevoort, R. Development and Adoption of a Dairy Nutrient Decision Support System. US\$ 200,000. Western Sustainable Agricultural Research and Education, USDA. Pending.

#### **PROFESSIONAL MEMBERSHIPS**

**NC-1119 – CSREES – USDA.** Management Systems to Improve the Economic and Environmental Sustainability of Dairy Enterprises (Rev. NC-119).

**ASABE.** American Society of Agricultural and Biological Engineers.

**AAEA.** American Agricultural Economics Association.

**ADSA.** American Dairy Science Association.