

VICTOR E. CABRERA

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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

Postdoctoral Research Scientist 2004-2006
Farm Risk Decision Making
University of Miami

Ph.D. 2004
Interdisciplinary Ecology/Food and Resource Economics
University of Florida

M.S. 1999
Agricultural Education and Communication/Farming System Research & Extension
University of Florida

Post-Graduate Diploma 1995
Administration of Agricultural Schools
Association Internationale des Maisons Familiales Rurales, Madrid-Paris

B.S. and Engineer 1993
Agricultural Production
Universidad Nacional Agraria La Molina, Lima

WORK EXPERIENCE

University of Wisconsin-Madison 2008-Present
Assistant Professor/Extension Dairy Specialist
Dairy Management
75% Extension, 25% Research

New Mexico State University 2006-2008
Assistant Professor/Extension Dairy Specialist
Dairy Management

75% Extension, 25% Research

University of Miami 2004-2006
Postdoctoral Research Associate
Farm Risk Management

University of Florida 2001-2004
Graduate Teaching and Research Assistant

University of Florida 1999
Intern/Research Assistant

Inter-American Development Bank 1999-2001
Consultant/Extension Program Planner

Valle Grande Rural Institute, Lima 1994-1997
Rural Educator/Extension Agent

Limatambo Farm, Lima 1993-1994
Manager

INTERNATIONAL CONSULTING

Ganaderos Productores de Leche Pura (ALPURA), Mexico 2009

Inter-American Institute for Global Change Research, Paraguay 2006

Universidad Veracruzana, Mexico 2005

Universidad de Guayaquil, Ecuador 2003

Universidad Nacional Agraria, Nicaragua 2003

Fundación para el Desarrollo Tecnológico Agropecuario y Forestal, Nicaragua 2002

Caritas del Peru 2001

Instituto Nacional de Tecnología Agraria, Nicaragua 2002

Instituto Nacional de Tecnología Agraria, Nicaragua 2000

AWARDS

Outstanding International Student 1998-2004

University of Florida

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

Honor and Membership 1999
The Fraternity of Alfa Zeta

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

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

Outstanding International Student in Administration of Agricultural Schools 1995
Association Internationale des Maisons Familiales Rurales

Honor Diploma. 2/177 Ranking 1993
Universidad Nacional Agraria La Molina

PROFESSIONAL MEMBERSHIPS

American Dairy Science Association 2006-Present

American Society of Agricultural and Biological Engineers 2004-Present

American Agricultural Economics Association 2006-Present

PUBLICATIONS

Journal Articles

1. **Cabrera, V.E.** Accepted. A large Markovian linear program for replacement policies to optimize dairy herd net income for diets and nitrogen excretion. *Journal of Dairy Science* 00-00.
2. **Cabrera, V.E., Solis, D., del Corral, J.** Accepted. Determinants of Technical Efficiency among Dairy Farms in Wisconsin. *Journal of Dairy Science* 00-00.
3. **Cabrera, V.E., Stavast, L.J., Baker, T.T., Wood, M.K., Cram, D.S., Flynn, R.P., and Ulery, A.L.** 2009. Soil and runoff response to dairy manure application on rangeland. *Agriculture, Ecology, and Environment* 131:255-262.
4. **Cabrera, V.E., Solis, D., Letson, D.** 2009. Optimal crop insurance under climate

variability: contrasting insurer and farmer interests. *Transactions of the ASABE* 52, 623-631.

5. AitSahlia, F., Wang, C., **Cabrera, V.E.**, Uryasev, S., Fraise, C.W. 2009. Optimal crop planting schedules and financial hedging strategies. *Annals of Operations Research* DOI: 10.1007/s10479-009-0551-2.
6. Liu, J., Men, C., Men, C., **Cabrera, V.E.**, Uryasev, S., Fraise, C.W. 2009. Optimizing crop insurance under climate variability. *Journal of Applied Meteorology and Climatology* DOI: 10.1175/2007JAMC1490.1.
7. **Cabrera, V.E.**, Hagevoort, R., Solis, D., Kirksey, R., Diemer, J.A. 2008. Economic Impact of Milk Production in the State of New Mexico. *Journal of Dairy Science* 91:2144-2150.
8. **Cabrera, V.E.**, Mathis, C.P., Kirksey, R.E., Baker, T.T. 2008. Development of a seasonal prediction model for manure excretion by dairy cattle. *The Professional Animal Scientist* 24:175-183.
9. **Cabrera, V.E.**, Breuer, N.E., Hildebrand, P.E. 2008. Participatory modeling in dairy farm systems: a method for building consensual environmental sustainability using seasonal climate forecasts. *Climatic Change* 89, 395-409.
10. Breuer, N.E., **Cabrera, V.E.**, Ingram, K.T. Broad, K., and Hildebrand, P.E. 2008. AgClimate: A case study in participatory decision support system development. *Climatic Change* 87, 385-403.
11. Fraise, C., **Cabrera, V.E.**, Breuer, N.E., Baez, J., Quispe, J. Matos, E. 2008. El Niño – Southern Oscillation Influences on Soybean Yields in Eastern Paraguay. *International Journal of Climatology* 28, 1339-1407.
12. **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.
13. **Cabrera, V.E.**, Letson, D., Podesta, G. 2007. The value of the climate information when Farm Programs matter. *Agricultural Systems* 93, 25-42.
14. **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.
15. **Cabrera, V.E.**, Breuer, N.E. and Hildebrand, P.E. 2006. North Florida dairy farmer perception toward the use of seasonal climate forecast technology. *Climatic Change* 78, 479-491.

16. **Cabrera, V.E.**, Fraisse, 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.
17. **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.
18. Fraisse, 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.
19. **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.
20. **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.

Book Chapters

- 1 **Cabrera, V.E.**, D. Solís, G.A Baigorria and D. Letson. 2009. Chapter 7th:Managing Climate Variability in Agricultural Analysis. IN Long, J.A. and Wells D.S. (Eds), *Ocean Circulation and El Niño: New Research*, p. 163-179, Nova Science Publishers, Inc, Hauppauge, NY.
- 2 Hoogenboom, G., Fraisse, C.W., Jones, J.W., Ingram, K.T., O'Brien, J.J., Bellow, J.G., Zierden, D., Stooksbury, D.E., Paz, J.O., Garcia y Garcia, A., Guerra, L.C., Letson, D., Breuer, N.E., **Cabrera, V.E.**, Hatch, L.U., and Roncoli, C. 2007. Climate-based agricultural risk management tools for Florida, Georgia and Alabma, USA. In: p. 273-278. (M.V.K. Sivakumar and J. Hansen, editors). *Climate Prediction and Agriculture: Advances and Challenges*. Springer, Berlin, Germany.

Invited Scientific Presentations and Proceedings

1. **Cabrera, V.E.** 2009. When to use gender biased semen: economics. Dairy Cattle Reproductive Council Annual Convention. St. Paul, MN, 12-13 November 2009. (Invited)
2. **Cabrera, V.E.** 2009. When to use gender biased semen: economics. Dairy Cattle Reproductive Council Annual Convention. Boise ID 19-20 November 2009. (Invited)
- 3.

4. **Cabrera, V.E.**, Gould, B.W., Valvekar, M. 2009. Livestock gross margin insurance for dairy Cattle: an analysis of program performance and cost under alternative policy configurations. AAEA, CAES, & WAEA Joint Annual Meeting. Milwaukee, WI, 26-28 July 2009.
5. **Cabrera, V.E.** 2009. A large Markovian linear program model for dairy herd decision-making. Joint ADSA-CSAS-ASAS Annual Meeting. Montreal, Canada, 12-16 July 2009. (Invited)
6. **Cabrera, V.E.** Shaver, R.D., Wattiaux, M.A. Optimizing income over feed supplement cost. 4-State Dairy Nutrition & Management Conference. 10-11 June 2009. (Invited)
7. Inostroza, J. F., **Cabrera, V.E.**, Shaver, R.D., Tricarico, J.M. 2009. Evaluation of the economic impact of Optigen use in commercial dairy herd diets with varying feed and milk prices. Alltech 25th International Symposium, 17-20 May 2009, Lexington, KY.
8. Inostroza, J. F., Shaver, R.D., **Cabrera, V.E.**, Tricarico, J.M. 2009. Effect of Optigen on milk yield composition and component yields in commercial Wisconsin dairy farms. Alltech 25th International Symposium, 17-20 May 2009, Lexington, KY.
9. **Cabrera, V.E.**, Solis, D., and Letson, D. 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.
10. **Cabrera, V.E.** NM-Manure: a seasonal prediction model of manure excretion for lactating dairy cows in New Mexico. ASABE Annual Meeting, Minneapolis, June 18-20, 2007.
11. **Cabrera, V.E.** Trends on dairy economic impacts in New Mexico and Texas and consequent decisions. Dairy Management Program. Clovis, NM, April 11, 2007.
12. **Cabrera, V.E.** Silage and dairy farming: a synergy for closed loop systems. High Plains Silage Workshop. Clovis, NM, March 22, 2007.
13. **Cabrera, V.E.** Prediction of manure excretion by lactating cows in the high plains. NM/TX Highlights Conference. Clovis, October 11, 2006.
14. 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., and Dixon, J. Project setup and learning processes in participative systems oriented research initiatives. 7th European IFSA Symposium, May 2006 Wageningen, The Netherlands.
15. **Cabrera, V.E.**, and 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.
16. Hayes, R., **Cabrera, V.E.**, and 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.
17. **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, 87th Annual Convention. January 2006, Nashville, Tennessee.
18. **Cabrera, V.E.**, Fraisse, C., Letson, D., Podesta, G., and 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.

19. **Cabrera, V.E.**, Letson, D., and 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.
20. **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.
21. **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.
22. Fraisse, C., Bellow, J., Breuer, N., **Cabrera, V.E.**, Hoogenboom, and 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.
23. Jones, J.W., Fraisse, C., Hildebrand, P.E., Breuer, N., **Cabrera, V.E.**, and 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.
24. **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.
25. **Cabrera, V.E.**, and Participatory modeling of north Florida dairy farm systems. Society for Applied Anthropology Annual Meeting. March 2004, Dallas, Texas.
26. **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.
27. Breuer, N.E., **Cabrera, V.E.**, and 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.
28. **Cabrera, V.E.** Economic and ecologic assessment of groundwater nitrogen pollution from north Florida dairy farm systems: an interdisciplinary approach. The 68th Annual Meeting of the Florida Academy of Sciences. March 2004, Orlando, Florida.
29. **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.
30. **Cabrera, V.E.**, and Hildebrand, P.E. Modeling family dynamics and household welfare in Cañete, Peru. 17th Symposium International Farming Systems Association, November, 2002, Orlando, Florida.
31. **Cabrera, V.E.**, Breuer, N.E., and 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.
32. **Cabrera, V.E.**, Baker, M., and Hildebrand, P.E. Formative evaluation of Valle Grande Rural Institute. 27th National Agricultural Education Research Conference. December 2000, San Diego, California.

33. **Cabrera, V.E.**, Baker, M., and Hildebrand, P.E. Farm problems, solutions, and extension programs for small farmers in Cañete, Peru. 16th Conference of the Association for International Agricultural and Extension Education. April 2000, Arlington, Virginia.
34. **Cabrera, V.E.** Modeling diversity within an agricultural community in Peru. 4th Biennial Meeting of the North American Chapter, International Farming Systems Association. October 1999, Guelph, Canada.

Abstracts

1. **Cabrera, V.E.**, Pantoja, J., Ruegg, P., Shook, G. 2009. Decision-making for early postpartum subclinical mastitis. *J. Dairy Sci.* 92 (E-Suppl. 1):T13.
2. **Cabrera, V.E.** 2009. A large Markovian linear program model for dairy herd decision-making. *J. Dairy Sci.* 92 (E-Suppl. 1):661.
3. Ruiz, M., **Cabrera, V.E.** 2009. The economic impact of five dairy cattle clinical diseases as measured by the correlation between Lactational incidence risk and the income over feed cost in Wisconsin dairy herds. *J. Dairy Sci.* 92 (E-Suppl. 1):W1.
4. Valvekar, M., **Cabrera, V.E.**, Gould, B. 2009. Analysis of program performance and cost under alternative policy configurations and market conditions. *J. Dairy Sci.* 92 (E-Suppl. 1):W102.
5. Janowski, J., **Cabrera, V.E.** 2009. A stochastic decision support system tool for dairy expansion. *J. Dairy Sci.* 92 (E-Suppl. 1):T236.
6. Inostroza, J. F., **Cabrera, V.E.**, Shaver, R.D., Tricarico, J.M. 2009. Evaluation of the economic impact of Optigen use in commercial dairy herd diets with varying feed and milk prices. *J. Dairy Sci.* 92 (E-Suppl. 1):M131.
7. Inostroza, J. F., Shaver, R.D., **Cabrera, V.E.**, Tricarico, J.M. 2009. Effect of Optigen on milk yield composition and component yields in commercial Wisconsin dairy farms. *J. Dairy Sci.* 92 (E-Suppl. 1):T297.
8. Reinemann, D. J., Thompson, P. D., Karthikeyan, K. G., Armentano, L. E., **Cabrera, V. E.**, Norman, J. M., Passos-Fonseca, T. H. Energy intensity and environmental impact of integrated dairy/bio-energy systems in Wisconsin, USA. 7th International Workshop: Modeling Nutrient Digestion and Utilization in Farm Animals. Paris, 10-12 September 2009.
9. **Cabrera, V.E.**, Solis, D. 2008. Managing the newly created LGM-Dairy insurance under seasonal climate variability. *J. Dairy Sci.* 91 (Suppl. 1):557.