

## Victor E. Cabrera, Ph.D.

Professor and Extension Specialist in Dairy Management  
University of Wisconsin-Madison, Department of Dairy Science  
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*Improving dairy farm management by providing scientific decision support tools*

### Biography

Dr. Cabrera combines applied research, interdisciplinary approaches, and participatory methods to deliver practical, user-friendly, and scholarly decision support tools for dairy farm management. These scientific tools are improving dairy farm profitability, environmental stewardship, and long-term sustainability of the dairy farm industry. Dr. Cabrera's research and Extension programs are having a global impact. Dr. Cabrera and his workgroup had developed 50 decision support tools, published 61 refereed articles, and 8 book chapters. Dr. Cabrera has presented in more than 90 scientific sessions, and given extension talks in more than 400 extension meetings in Wisconsin, other States, and several other countries. Dr. Cabrera work in the past 10 years has been pivotal to attract more than \$4.0 million to support his research and extension initiatives. Dr. Cabrera has been distinguished with the University of Wisconsin-Madison Vilas Faculty Mid-Career Investigator Award, Second Mile Extension award of the Wisconsin Association of County Agricultural Agents, the Pound Extension Award and the Alfred Toepfer Faculty Fellow Award from the University of Wisconsin College of Agriculture and Life Sciences, the Distinguished Achievement Award from the University of Florida School of Natural Resources and Environment, and the Foundation Scholar Award in Dairy Production from the American Dairy Science Association.

### Professional experience

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2018 - present     **Professor**  
Extension Specialist in Dairy Management  
Department of Dairy Science  
**University of Wisconsin-Madison**  
30% Research, 70% Extension

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2014 – 2017     **Associate Professor**  
Extension Specialist in Dairy Management  
Department of Dairy Science  
**University of Wisconsin-Madison**  
30% Research, 70% Extension

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2008 – 2013	<b>Assistant Professor</b> Extension Specialist in Dairy Management Department of Dairy Science <b>University of Wisconsin-Madison</b> 30% Research, 70% Extension
2006 – 2008	<b>Assistant Professor</b> Extension Specialist in Dairy Management Department of Extension Animal Sciences and Natural Resources <b>New Mexico State University</b> 25% Research, 75% Extension
1999 – 2001	<b>Extension Program Planner</b> Department of Rural Development <b>Inter-American Development Bank, Peru</b>
1994 – 1997	<b>Agricultural Educator and Extension Agent</b> Department of Higher Education <b>Valle Grande Rural Institute, Peru</b>

### Academic Education

2004 – 2006	<b>Postdoctoral Research Associate</b> Farm risk decision-making <b>University of Miami</b>
2001 – 2004	<b>Ph.D.</b> Ecology and Economics <b>University of Florida</b>
1997 – 1999	<b>M.S.</b> Farming Systems Research and Extension <b>University of Florida</b>
1995	<b>Diploma</b> Management of Agricultural Schools <b>Union de Escuelas Familiares Agrarias, Madrid-Paris</b>
1993	<b>Engineer</b> Agricultural Production <b>La Molina Agrarian University, Peru</b>
1988 – 1991	<b>B.S.</b> Sciences – Agronomy <b>La Molina Agrarian University, Peru</b>

### Honors and Awards

2016	<b>Vilas Faculty Mid-Career Investigator Award</b> University of Wisconsin-Madison
2013	<b>Second Mile Award</b> Wisconsin Association of Agricultural Agents

2012	<b>Pound Extension Award</b> College of Agricultural and Life Sciences University of Wisconsin-Madison
2012	<b>Distinguished Achievement</b> School of Natural Resources and Environment University of Florida
2011	<b>Foundation Scholar Award in Dairy Production</b> American Dairy Science Association
2011	<b>Alfred Toepfer Faculty Fellow Award</b> University of Wisconsin-Madison
1998 – 1999, 2001 – 2004	<b>Outstanding International Student</b> University of Florida
2002	<b>Outstanding Contributions to Farming Systems in Nicaragua</b> Agricultural Development Foundation, Nicaragua
1999	<b>Honor and Membership</b> The Fraternity of Alfa Zeta
1999	<b>Achievement and Membership</b> The Honor Society of Agriculture Gamma, Sigma, Delta

### **Refereed Journal Articles (68)**

1. Ricci, A., M. Li, P. M. Fricke, and V. E. Cabrera. Accepted 3 February 2020. Short Communication: Economic impact among 7 reproductive programs for lactating dairy cows including a sensitivity analysis of the cost of hormonal treatments. *Journal of Dairy Science* 00:00-00.
2. Njuki, E., B. Bravo-Ureta, and **V. E. Cabrera**. 2020. Climatic effects and total factor productivity: econometric evidence for Wisconsin dairy farms. *European Review of Agricultural Economics*. doi:10.1093/erae/jbz046.
3. Barrientos, J. A., H. White, R. D. Shaver, and **V. E. Cabrera**. 2020. Improving nutritional accuracy and economics through multiple ration-grouping strategy. *Journal of Dairy Science* 00:00-00.
4. **Cabrera, V. E.**, J. A. Barrientos, H. Delgado, and L. Fadul-Pacheco. 2020. Real-time continuous decision making using big data on dairy farms. *Journal of Dairy Science* 00:00-00
5. Ouellet, V., **V. E. Cabrera**, L. Fadul-Pacheco, and É. Charbonneau. 2019. The relationship between the number of consecutive days with heat stress and production performance of Holstein dairy cows raised in a continental climate. *Journal of Dairy Science* 102:8537-8545.
6. Kebreab, E., K. F. Reed, **V. E. Cabrera**, P. E. Vadas, G. Thoma, and J. M. Tricarico. 2019. A new modeling environment for integrated dairy system management. *Animal Frontiers* 9:25-32.
7. Wu, Y., D. Liang, R. D. Shaver, and **V. E. Cabrera**. 2019. An income over feed cost nutritional grouping strategy. *Journal of Dairy Science*. 102:1-12 (in press).
8. Bellingeri, A., **V. E. Cabrera**, A. Gallo, D. Liang, and F. Masoero. 2019. A survey of dairy cattle management, crop planning, and forages cost of production in

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Northern Italy. Italian Journal of Animal Science 00:00-00.

9. Krpálková, L., **V. E. Cabrera**, L. Zavaldilová, and M. Štípková. Accepted November 2018. Importance of hoof health in dairy production. Effect of claw disorders on milk production, fertility, and longevity, and their economic impact in Holstein cows. Czech Journal of Animal Science 00:00-00.
  10. Jabarzareh, A., A. Sadeghi-Sefidmazgi, G. Ghorbani, and **V. E. Cabrera**. 2018. Economic evaluation of sexed semen use in Iranian dairy farms according to field data. *Reprod Dom Anim*. 2018:1–8. DOI: 10.1111/rda.13247.
  11. Mur-Navales, R., F. Lopez-Gatius, P. Fricke, **V. E. Cabrera**. 2018. An economic evaluation of management strategies to mitigate the negative impact of twinning in dairy herds. *Journal of Dairy Science* 101:8335–8349.
  12. Cordoba, M. C., P. L. Ruegg, R. D. Shaver, K. A. Weigel, P. D. Carvalho, P. M. Fricke, and **V. E. Cabrera**. 2018. Repro Money: an Extension program to improve dairy farms' reproductive performance. *Journal of Extension* 56:2-16263RIB.
  13. **Cabrera, V. E.** 2018. Helping dairy farmers to improve economic performance utilizing data-driving decision support tools. *Animal* 12(1):134-144.
  14. Bach, A., and **V. E. Cabrera**. 2017. Robotic milking: feeding strategies and economic returns. *Journal of Dairy Science* 100:7720-7728.
  15. Liang, D. F. Sun, M. A. Wattiaux, **V. E. Cabrera**, J. L. Hedtcke, and E. M. Silva. 2017. Effect of feeding strategies and cropping systems on greenhouse gas emission from Wisconsin certified organic dairy farms. *Journal of Dairy Science* 100:5957-5973.
  16. López-Gatius, F., C. Andreu-Vázquez, R. Mur-Navales, **V. E. Cabrera**, R. H. F. Hunter. 2017. The problem of twin pregnancies in dairy cattle. A review on practical prospects. *Livestock Science* 197:12-16.
  17. Krpalkova, L, **V. E. Cabrera**, J. Kvapilik, and J. Burdych. 2016. Associations of reproductive and health problems with the performance and profit of commercial dairy cows. *Agricultural Economics* 62:385-394.
  18. Krpalkova, L, **V. E. Cabrera**, J. Kvapilik, and J. Burdych. 2016. Dairy farm profit according to herd size, milk yield, and number of cows per worker. *Agricultural Economics* 62:225-234.
  19. Batista, E. O. S., L. M. Vieira, M. F. Sá Filho, P. D. Carvalho, H. Rivera, **V. E. Cabrera**, M. C. Wiltbank, P. S. Baruselli, and A. H. Souza. 2016. Field fertility in Holstein bulls: Can type of breeding strategy (artificial insemination following estrus versus timed artificial insemination) alter service sire fertility? *Journal of Dairy Science* 99:2010-2015.
  20. Kalantari A. S., L. E. Armentano, R. D. Shaver, and **V. E. Cabrera**. 2016. Economic impact of nutritional grouping in dairy herds. *Journal of Dairy Science* 99:1672-1692.
  21. **Cabrera, V. E.**, and A. S. Kalantari. 2016. Economics of production efficiency: Nutritional grouping. *Journal of Dairy Science* 99:825–841.
  22. Qi, L., B. E. Bravo-Ureta, and **V. E. Cabrera**. 2015. From cold to hot: Climatic effects and productivity in Wisconsin dairy farms. *Journal of Dairy Science* 98:8664–8677.
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23. Mahnani, A., A. Sadeghi-Sefidmazgi, and **V. E. Cabrera**. 2015. Consequences and economics of metritis in Iranian Holstein dairy farms. *Journal of Dairy Science* 98:6048-6057.
  24. Shahinfar, S., J. N. Guenther, D. Page, A. Samia-Kalantari, **V. E. Cabrera**, P. M. Fricke, and K. A. Weigel. 2015. Optimization of reproductive management programs using lift chart analysis and cost sensitive evaluation of classification errors. *Journal of Dairy Science* 98:3717-3728.
  25. Liang, D., and **V. E. Cabrera**. 2015. Optimizing productivity, herd structure, environmental performance, and profitability of dairy cattle herds. *Journal of Dairy Science* 98:2812-2823.
  26. Kalantari, A. S., **V. E. Cabrera**. 2015. Stochastic economic evaluation of dairy farm reproductive performance. *Canadian Journal of Animal Science* 95:59-70.
  27. Contreras-Govea, F. E., **V. E. Cabrera**, L. E. Armentano, R. D. Shaver, P. M. Crump, D. K. Beede, and M. J. VandeHaar. 2015. Constraints for nutritional grouping in Wisconsin and Michigan dairy farms. *Journal of Dairy Science* 98:1336-1344.
  28. Aguirre-Villegas, H. A., T. H. Passos-Fonseca, D. J. Reinemann, L. E. Armentano, M. A. Wattiaux, **V. E. Cabrera**, J. M. Norman, and R. Larson. 2015. Green cheese: Partial life cycle assessment of greenhouse gas emissions and energy intensity of integrated dairy and bioenergy systems. *Journal of Dairy Science* 98:1571-1592.
  29. Kalantari, A. S., **V. E. Cabrera**, D. Solis. 2015. A comparison analysis of two alternative dairy cattle replacement strategies: Optimization versus simulation models. *Revista Economía Agraria* 18:12-24. ISSN 0718-9141.
  30. Krpalkova, L., **V. E. Cabrera**, J. Kvapilik, J. Burdych, and P. Crump. 2014. Associations between age at first calving, rearing average daily weight gain, herd milk yield level and dairy herd production, reproduction, and profitability of costs. *Journal of Dairy Science* 97:6573-6582.
  31. Dutreuil, M., M. Wattiaux, C. A. Hardie, and **V. E. Cabrera**. 2014. Feeding strategies and manure management for cost effective mitigation of greenhouse gas emissions from dairy farms in Wisconsin. *Journal of Dairy Science* 97:5904-5917.
  32. Hardie, C., M. Wattiaux, M. Dutreuil, R. Gildersleeve, N. Keuler, and **V. E. Cabrera**. 2014. Feeding strategies on certified organic dairy farms in Wisconsin and their impact on milk production and income over feed costs. *Journal of Dairy Science* 97:4612-4623.
  33. **Cabrera, V. E.** 2014. Economics of fertility in high-yielding dairy cows on confined TMR systems. *Animal* 8:211-221.
  34. Krpalkova, L., **V. E. Cabrera**, M. Vacek, M. Stipkova, L. Stadnik, and P. Crump. 2014. Impact of prepubertal and postpubertal growth and age at first calving on production and reproduction traits during the first 3 lactations in Holstein dairy cattle. *Journal of Dairy Science* 97:3017-3027.
  35. Shahinfar, S, A. Kalantari, **V. E. Cabrera**, K. Weigel. 2014. Short communication:
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Prediction of retention pay-off using a Machine Learning algorithm. *Journal of Dairy Science* 97:2949-2952.

36. Shahinfar, S. D. Page, J. Guenther, **V. E. Cabrera**, P. Fricke, and K. Weigel. 2014. Prediction of insemination outcomes in Holstein dairy cattle using alternative machine learning algorithms. *Journal of Dairy Science* 97:1-12.
  37. Giordano, J. O., P. M. Fricke, and **V. E. Cabrera**. 2013. Economics of resynchronization strategies including chemical tests to identify non-pregnant cows. *Journal of Dairy Science* 96:949-961.
  38. Kalantari, A. S., **V. E. Cabrera**. 2012. The effect of reproductive performance on the dairy cattle herd value assessed by integrating a daily dynamic programming with a daily Markov chain model. *Journal of Dairy Science* 95:6160-6170.
  39. Giordano, J. O., A. Kalantari, P. M. Fricke, M. C. Wiltbank, and **V. E. Cabrera**. 2012. A Daily herd Markov-chain model to study the reproductive and economic impact of reproductive programs combining timed artificial insemination and estrous detection. *Journal of Dairy Science* 95:5442-5460.
  40. **Cabrera, V. E.** 2012. A simple formulation and solution to the replacement problem: A practical tool to assess the economic cow value, the value of a new pregnancy, and the cost of a pregnancy loss. *Journal of Dairy Science* 95:4683-4698.
  41. Giordano, J. O., P. M. Fricke, M. C. Wiltbank, and **V. E. Cabrera**. 2011. An economic decision-making decision support system for selection of reproductive management programs on dairy farms. *Journal of Dairy Science* 94:6216-6232.
  42. Valvekar, M., J. P. Chavas, B. W. Gould, and **V. E. Cabrera**. 2011. Revenue risk management, risk aversion and the use of LGM-Dairy insurance. *Agricultural Systems* 104:671-678.
  43. **Cabrera, V.E.**, Janowski, J.M. 2011. Wisconsin dairy business and production survey: Comparison between farms planning to expand and farms not planning to expand. *Journal of Extension* 3RIB1.
  44. Pinzón-Sánchez, C., **V. E. Cabrera**, and P. L. Ruegg. 2011. Decision tree analysis of treatment strategies for mild and moderate cases of clinical mastitis. *Journal of Dairy Science* 94:1873-1892.
  45. Chidmi, B., D. Solís and V. E. Cabrera. 2011. Analyzing the sources of technical efficiency among heterogeneous dairy farms: A quantile regression approach. *Journal of Development and Agricultural Economics* 3(7):318-324.
  46. **Cabrera, V. E.** 2010. A large Markovian linear program for replacement policies to optimize dairy herd net income for diets and nitrogen excretion. *Journal of Dairy Science* 93:394-406.
  47. Valvekar, M., **V. E. Cabrera**, and B. W. Gould. 2010. Identifying cost-minimizing strategies for guaranteeing target dairy income over feed cost via use of the Livestock Gross Margin dairy insurance program. *Journal of Dairy Science* 93:3350-3357.
  48. **Cabrera, V. E.**, D. Solis, and J. del Corral. 2010. Determinants of technical
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efficiency among dairy farms in Wisconsin. *Journal of Dairy Science* 93:387-393.

49. Inostroza, J. F., R. D. Shaver, **V. E. Cabrera**, and J. M. Tricarico. 2010. Effect of diets containing a controlled-release urea product on milk yield, composition and component yields in commercial Wisconsin dairy herds and economic implications. *Professional Animal Scientist* 26:175-180.
50. Breuer, N. E., C. W. Fraisse, and **V. E. Cabrera**. 2010. The Cooperative Extension Service as a boundary organization for diffusion of climate forecast: A 5-year study. *Journal of Extension* 4RIB7.
51. **Cabrera, V.E.**, D. Solis, and D. Letson. 2009. Optimal crop insurance under climate variability: contrasting insurer and farmer interests. *Transactions of the ASABE* 52, 623-631.
52. **Cabrera, V.E.**, L. J. Stavast, T. T. Baker, M. K. Wood, D. S. Cram, R. P. Flynn, and A. L. Ulery. 2009. Soil and runoff response to dairy manure application on rangeland. *Agriculture, Ecology, and Environment* 131:255-262.
53. AitSahlia, F., C. Wang, **V. E. Cabrera**, S. Uryasev, and C. W. Fraisse. 2009. Optimal crop planting schedules and financial hedging strategies. *Annals of Operations Research* DOI: 10.1007/s10479-009-0551-2.
54. Liu, J., C. Men, **V. E. Cabrera**, S. Uryasev, and C. W. Fraisse. 2008. Optimizing crop insurance under climate variability. *Journal of Applied Meteorology and Climatology* 47:2572-2580.
55. **Cabrera, V. E.**, R. Hagevoort, D. Solis, R. Kirksey, and J. A. Diemer. 2008. Economic impact of milk production in the State of New Mexico. *Journal of Dairy Science* 91:2144-2150.
56. **Cabrera, V. E.**, C. P. Mathis, R. Kirksey, and T. T. Baker. 2008. Development of a seasonal prediction model for manure excretion by dairy cattle. *The Professional Animal Scientist* 24:175-183.
57. Fraisse, C. W., **V. E. Cabrera**, N. E. Breuer, J. Baez, J. Quispe, E. Matos. 2008. El Niño – Southern Oscillation Influences on Soybean Yields in Eastern Paraguay. *International Journal of Climatology* 28:1339-1407.
58. **Cabrera, V. E.**, N. E. Breuer, and P. E. Hildebrand. 2008. Participatory modeling in dairy farm systems: a method for building consensual environmental sustainability using seasonal climate forecasts. *Climatic Change* 89:395-409.
59. Breuer, N. E., **V. E. Cabrera**, K. T. Ingram, K. Broad, and P. E. Hildebrand. 2008. AgClimate: A case study in participatory decision support system development. *Climatic Change* 87:385-403.
60. **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.
61. **Cabrera, V. E.**, D. Letson, and G. Podesta. 2007. The value of the climate information when Farm Programs matter. *Agricultural Systems* 93:25-42.
62. **Cabrera, V. E.**, A. de Vries., and P. E. Hildebrand. 2006. Manure nitrogen

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production in North Florida dairy farms: A comparison of three models. *Journal of Dairy Science* 89:1830-1841.

63. **Cabrera, V. E.**, N. E. Breuer, and P. E. Hildebrand. 2006. North Florida dairy farmer perception toward the use of seasonal climate forecast technology. *Climatic Change* 78:479-491.
  64. **Cabrera, V. E.**, C. Fraisse, D. Letson, G. Podesta, and J. Novak. 2006. Impact of climate information in reducing farm risk by selecting crop insurance programs. *Transactions of the ASABE* 49:1223-1233.
  65. **Cabrera, V. E.**, P. E. Hildebrand, J. W. Jones, D. Letson, and A. de Vries. 2006. An integrated North Florida dairy farm model to reduce environmental impacts under seasonal climate variability. *Agriculture, Ecosystems, and Environment* 113:82-97.
  66. Fraisse, C. W., J. G. Bellow, N. E. Breuer, **V. E. Cabrera**, L. Hatch, G. Hoogenboom, K. Ingram, J. W. Jones, J. J. O'Brien, J. Paz, and D. Zierden. 2006. AgClimate: A Climate Forecast Information System for Agricultural Risk Management in the Southeastern USA. *Computer and Electronics in Agriculture* 53:13-27.
  67. **Cabrera, V. E.**, N. E. Breuer, P. E. Hildebrand, and D. Letson. 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.
  68. **Cabrera, V. E.**, P. E. Hildebrand, and J. W. Jones. 2005. Modeling the effect of household composition on the welfare of limited-resource farmers in Coastal Cañete, Peru. *Agricultural Systems* 86:207-222.
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## Chapter Books (8)

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1. Fraisse, C. W., N. E. Breuer, and **V. E. Cabrera**. 2019. Developing climate-based decision support systems (DSS) from agricultural systems models. In: *Advances in crop modelling for a sustainable agriculture*. Boote, K. (Ed), Burleigh Dodds Series in Agricultural Science, ISBN-13: 978-1786762405.
  2. Overton, M. W., and **V. E. Cabrera**. 2017. Monitoring and quantifying value of change in reproductive performance. In: *Large Dairy Herd Management Book* (<http://ldhm.adsa.org>). American Dairy Science Association.
  3. Liang, D., and **V. E. Cabrera**. 2017. Dairy Farm Management Strategies to Reduce Greenhouse Gas Emissions: Mitigation Strategies and Economic Considerations in the US. in: *Agricultural Research Updates*. Volume 20. Nova Science Publishers.
  4. Krpálková, L., **V. E. Cabrera**, J. Kvapilík, J. Burdych, M. Štipková, P. Crump, L. Stádník, and M. Vacek. 2014. Optimal growth of heifers and effect of milk yield level on dairy herd production, reproduction, and profitability. LAP LAMBERT Academic Publishing, Saarbrücken, Deutschland, Germany.
  5. **Cabrera, V. E.** 2012. DairyMGT: A suite of decision support systems in dairy farm
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management. IN Decision Support Systems. Jao C. (Ed), INTECH, Rijeka, Croatia.

6. **Cabrera, V. E.**, P. E. Hildebrand. 2012. Chapter 7th: Linear programming for dairy herd simulation and optimization: An integrated approach for decision-making. IN Linear programming - New frontiers in theory and applications. Zoltan, A. M. (Ed.), Nova Science Publishers, Inc., Hauppauge, NY.
7. **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 D. S. Wells (Eds), Ocean circulation and El Niño: New research, p. 163-179, Nova Science Publishers, Inc., Hauppauge, NY.
8. Hoogenboom, G., C. W. Fraisse, 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: Sivakumar, M. V. K. and J. Hansen (Eds.), Climate Prediction and Agriculture: Advances and Challenges, p. 273-278, Springer, Berlin.
9. Langeveld, J.W.A., A. Crawford, M. Paine, S. Pinheiro, W. de Boef, I. S. Kristensen, J. Hermansen, B. Dedieu, P. E. Hildebrand, **V. E. Cabrera**, D. Jansen, and J. Dixon. 2006. Project setup and learning processes in participative systems oriented research initiatives. In: Langeveld, H., N. Roling (Eds), Changing European farming systems for a better future. New visions for rural areas. p. 89-91, Wageningen Academic Publishers, Wageningen.

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### **Computerized Decision Support Tools (49)**

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1. **Cabrera, V. E.** Bulk tank SCC and milk value.
  2. **Cabrera, V. E.** Repro Money Extension program in Wisconsin 2010-2014.
  3. Gaspar, N., and **V. E. Cabrera**. Economic evaluation of CholiPEARL use on preventing subclinical Ketosis.
  4. **Cabrera, V. E.** Characteristics of organic, grazing, and conventional dairy farms in the state of Wisconsin.
  5. **Cabrera, V. E.**, and K. A. Weigel. Integrated genomic testing for Jersey heifer calf decision support tool.
  6. **Cabrera, V. E.**, and G. Lopes. Premium on beef dairy program.
  7. Shahinfar, S., A. Kalantari, **V. E. Cabrera**, and K. A. Weigel. Retention Pay-Off (RPO) calculator.
  8. **Cabrera, V. E.** Nutritional grouping in Wisconsin and Michigan dairy farms.
  9. **Cabrera, V. E.** The economic value of a dairy cow.
  10. **Cabrera, V. E.**, L. Armentano, and R. D. Shaver. FeedVal v6.0.
  11. **Cabrera, V. E.**, and J. O. Giordano. UW-CornellDairyRepro\$Plus: A reproductive analysis tool that includes heat detection devices.
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12. **Cabrera, V. E.** Dairy reproductive economic analysis.
  13. Gould, B. W. and **V. E. Cabrera.** Livestock Gross Margin-Dairy analyzer.
  14. **Cabrera, V. E.** Grouping strategies for feeding lactating dairy cattle.
  15. **Cabrera, V. E.** Exploring timing of pregnancy impact on income over feed cost.
  16. **Cabrera, V. E.**, and A. S. Kalantari. Milk curve fitter.
  17. **Cabrera, V. E.**, and P. Meyer. Projecting dairy herd size and make-up using the herd structure and simulation model.
  18. **Cabrera, V. E.**, and K. Bolton. Working capital decision support system.
  19. **Cabrera, V. E.**, and J. O. Giordano. UW-DairyRepro\$: A reproductive economic analysis tool.
  20. **Cabrera, V. E.** Dairy extension feed cost evaluator. Benchmarks feed costs and income over feed costs for participating herds.
  21. **Cabrera, V. E.**, and B. W. Gould. Net guarantee income over feed cost.
  22. **Cabrera, V. E.**, and J. Vanderlin. The Wisconsin dairy farm ratio-benchmarking tool.
  23. **Cabrera, V. E.**, and J. Janowski. Decision support system program for dairy production and expansion.
  24. **Cabrera, V. E.** Optigen evaluator.
  25. **Cabrera, V. E.**, and B. W. Gould. Estimating your mailbox milk price.
  26. **Cabrera, V. E.** Milk component price analysis.
  27. **Cabrera, V. E.** Economic analysis of 3X milking.
  28. Valvekar, M., **V. E. Cabrera**, M. Wattiaux, and B. W. Gould. Livestock Gross Margin-Dairy feed equivalent calculator.
  29. **Cabrera, V. E.** Dairy ration feed additive break-even analysis.
  30. **Cabrera, V. E.**, K. Bolton, and R. D. Shaver. Income over feed cost.
  31. **Cabrera, V. E.**, K. Bolton, and P. Hoffman. Cost-benefit of accelerated feeding program for dairy heifers.
  32. **Cabrera, V. E.** Livestock Gross Margin-Dairy optimum coverage.
  33. **Cabrera, V. E.** Economic evaluation of using rbST.
  34. **Cabrera, V. E.**, and B. W. Gould. Livestock Gross Margin-Dairy premium sensitivity.
  35. **Cabrera, V. E.** Economic value of sexed semen programs.
  36. **Cabrera, V. E.** Income over feed supplement cost.
  37. **Cabrera, V. E.** Return to labor.
  38. **Cabrera, V. E.** Heifer replacement.
  39. **Cabrera, V. E.** Income over feed cost.
  40. **Cabrera, V. E.** Heifer break-even.
  41. **Cabrera, V. E.** Livestock Gross Margin-Dairy premium calculator.
  42. **Cabrera, V. E.** Corn feeding strategies
  43. **Cabrera, V. E.** Lactation benchmark curves.
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44. **Cabrera, V. E.** Value of a springer.
  45. **Cabrera, V. E.** Dairy farm nutrient manager.
  46. **Cabrera, V. E.** Alfalfa yield predictor.
  47. **Cabrera, V. E.** Grazing-N: application that balances nitrogen in grazing systems.
  48. **Cabrera, V. E.** Seasonal prediction model of manure excretion.
  49. **Cabrera, V. E.** DyNoFlo: Dynamic North Florida farm model.
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### **Invited Research Presentations (13)**

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1. **Cabrera, V. E.**, J. Barrientos, L. Fadul, and H. Delgado. 2019. Real-time continuous decision-making using big data. *Journal of Dairy Science* 102: (Suppl. 1): 322.
  2. **Cabrera, V. E.** 2018. What are the economic advantages of grouping and feeding dairy cows by nutritional need? Proceedings of 29th Annual Florida Ruminant Nutrition Symposium. Gainesville, FL 5-7 February 2018.
  3. Mur-Novales, R. M., and **V. E. Cabrera.** 2017. What type of semen should I use? Proceedings Dairy Cattle Reproduction Council Annual Convention. Reno, NV 7-9 November 2017.
  4. Bach, A., and **V. E. Cabrera.** 2016. Nutritional approaches in robotic herds. *Journal of Dairy Science* 99 (Suppl. 1):35.
  5. **Cabrera, V. E.** 2015. Economics of production efficiency: Nutritional grouping. *Journal of Dairy Science* 98 (Suppl. 2):350.
  6. **Cabrera, V. E.** 2014. Impact of decision support tools available for dairy farm management. American Dairy Science Association Annual Meeting. Kansas City, MO. 23 July 2014.
  7. **Cabrera, V. E.** 2014. Economics of fertility in high-yielding dairy cows on confined TMR systems. In Proceedings. International Cow Fertility Conference, New Science – New Practices. Westport, Mayo, Ireland. 18-21 May 2014.
  8. **Cabrera, V. E.** 2013. Grouping strategies to improve feed efficiency. 26<sup>th</sup> American Dairy Science Association Discover Conference: Dairy Feed Efficiency. Naperville, IL. 23-26 September 2013.
  9. **Cabrera, V. E.** 2011. The need for applied research and decision support tools in dairy farm management and decision-making. 2011 American Dairy Science Association Foundation Lecture. New Orleans, LO. 12 July 2011.
  10. **Cabrera, V. E.** 2011. Economic comparison of reproductive management programs. 21<sup>st</sup> American Dairy Science Association Discover Conference: Improving Reproductive Efficiency of Lactating Dairy Cows. Itasca, IL. 11 May 2011.
  11. **Cabrera, V. E.** 2011. The economic value of changes in 21-day pregnancy rate and what controls this value. 21<sup>st</sup> American Dairy Science Association Discover Conference: Improving Reproductive Efficiency of Lactating Dairy Cows. Itasca, IL. 10 May 2011.
  12. **Cabrera, V. E.** 2011. Exploring methods to assess the economic value of dairy cattle reproductive programs. Midwest American Dairy Science Association
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Meeting. Des Moines, IA. 15 March 2011.

13. **Cabrera, V. E.** 2009. A large Markovian linear program model for dairy herd decision-making. American Dairy Science Association Annual Meeting. Montreal, Canada. 15 July 2009.
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### **Papers and Abstracts at Scientific Meetings (97)**

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1. Li, M., **V. E. Cabrera**, and K. Reed. 2019. Updating Holstein and Jersey lactation curve parameters for the Ruminant Farm System Model (RuFaS). *Journal of Dairy Science* 102: (Suppl. 1): M128.
  2. Li, W., and **V. E. Cabrera**. 2019. Interactions among pregnancy rate, turnover ratio, and herd structure. *Journal of Dairy Science* 102: (Suppl. 1): M131.
  3. Delgado, H., L. Fadul-Pacheco, and **V. E. Cabrera**. 2019. The use of integrated data to identify first-lactation cows at high risk of clinical mastitis. *Journal of Dairy Science* 102: (Suppl. 1): M134.
  4. Fadul-Pacheco, L., H. Delgado, and **V. E. Cabrera**. 2019. Machine learning algorithms for early prediction of clinical mastitis. *Journal of Dairy Science* 102: (Suppl. 1): 94.
  5. Li, M., **V. E. Cabrera**, and K. Reed. 2019. A stochastic animal life-cycle simulation model and its herd structure. *Journal of Dairy Science* 102: (Suppl. 1): 96.
  6. Barrientos-Blanco, J., **V. E. Cabrera**, and R. D. Shaver. 2019. Executing a better nutritional grouping strategy in commercial dairy farms. *Journal of Dairy Science* 102: (Suppl. 1): 98.
  7. Bellingeri, A., A. Gallo, D. Liang, F. Masoero, and **V. E. Cabrera**. 2019. Development of a decision support tool for optimal allocation of nutritional resources in a dairy herd. *Journal of Dairy Science* 102: (Suppl. 1): 100.
  8. Li, W., and **V. E. Cabrera**. 2019. Economics of using beef semen. *Journal of Dairy Science* 102: (Suppl. 1): 102.
  9. Mur-Novales, R., P. M. Fricke, **V. E. Cabrera**, J. O. Giordano, M. C. Wiltbank, and J. P. N. Martins. 2019. Effects of parity, season and region on fertility of lactating dairy cows submitted to a Double-Ovsynch protocol for first timed-AI. *Journal of Dairy Science* 102: (Suppl. 1): W110.
  10. Ricci, A., M. Li, P. M. Fricke, and **V. E. Cabrera**. 2019. The reproductive and economic impact among 6 reproductive programs for lactating dairy cows including a sensitivity analysis of the cost of hormonal treatments. *Journal of Dairy Science* 102: (Suppl. 1): W115.
  11. Skevas, T., and **V. E. Cabrera**. Spatial dependence and dynamic productivity growth in Wisconsin dairy farming. Selected Paper prepared for presentation at the 2019 Agricultural & Applied Economics Association Annual Meeting, Atlanta, GA, July 21 – 23.
  12. Njuki, E., B. Bravo-Ureta, and **V. E. Cabrera**. 2019. Productivity, weather and climate: Evidence for a sample of Wisconsin dairy farms from a GTRE model. *Asociación Española de Economía Agraria, XII Congreso de Economía Agraria*,
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Lugo, Galicia, September 5, 2019.

13. Liang, D., H. Delgado, and **V. E. Cabrera**. 2018. A virtual dairy farm brain. 13th European International Farming System Association Symposium of the Farming and Rural Systems: Farming systems: facing uncertainties and enhancing opportunities. Chania, Crete, Greece, 01-05 July 2018.
  14. Ouellet, V., **V. E. Cabrera**, L. Fadul-Pacheco, P. Greiner, and E. Charbonneau. 2018. Relationship between the accumulative effects of heat stress and Holstein dairy cows' milk performances in eastern Canada. *Journal of Dairy Science* 101: (Suppl. 2): 94.
  15. Barrientos, J. A., **V. E. Cabrera**, and R. D. Shaver. 2018. Improving nutritional accuracy through multiple ration-grouping strategy. *Journal of Dairy Science* 101: (Suppl. 2): 100.
  16. Wangen, S. R., H. D. Rodriguez, D. Liang, A. Christensen, M. Ferris, and **V. E. Cabrera**. 2018. Development of an integrated dairy farm decision support system to facilitate dairy management-I. Data integration and warehousing. *Journal of Dairy Science* 101: (Suppl. 2): 320.
  17. Christensen A., S. R., Delgado, D. Liang, S. R. Wangen, M. Ferris, and **V. E. Cabrera**. 2018. Development of an integrated dairy farm decision support system to facilitate dairy management – II. Analysis from integrated data. *Journal of Dairy Science* 101: (Suppl. 2): 321.
  18. Delgado, H., D. Liang, and **V. E. Cabrera**. 2018. The lifetime impact of a clinical mastitis case during the first 100 lactation days in first lactation. *Journal of Dairy Science* 101: (Suppl. 2): 326.
  19. Liang, D., A. Golechha, **V. E. Cabrera**, and J. Patel. 2018. Predicting clinical mastitis at 30 to 60 DIM using an integrated real-time data warehouse. *Journal of Dairy Science* 101: (Suppl. 2): 327.
  20. Liang, D., T. Rutherford, B. Jones, R. D. Shaver, and **V. E. Cabrera**. 2017. Trade-off between farm profitability and greenhouse gas emission. *Journal of Dairy Science* 100 (Suppl. 2): M147.
  21. Santana, R. A. V., A. F. Brito, **V. E. Cabrera**, F. A. Barbosa, A. K. Hoshide, A. F. Benson, A. N. Hafla, H. M. Darby, K. J. Soder, R. Kersbergen. 2017. Economic and environmental performance of traditional and grass-fed organic dairies using the Integrated Farm System Model. *Journal of Dairy Science* 100 (Suppl. 2): 329.
  22. Wu, Y., **V. E. Cabrera**, R. D. Shaver. 2017. Maximizing income over feed cost by grouping cows with mixed-integer programming. *Journal of Dairy Science* 100 (Suppl. 2): 327.
  23. Mur-Novales, R., I. Garcia-Ispuerto, B. Serrano-Pérez, **V. E. Cabrera**, F. López-Gatius. 2017. Pre-ovulatory follicular size and the subsequent conception rate in dairy cows. *Journal of Dairy Science* 100 (Suppl. 2): 310.
  24. Liang D., T. F. Rutherford, B. L. Jones, R. D. Shaver, and **V. E. Cabrera**. 2016. Developing a feed allocation model to maximize income over feed cost and
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- minimize enteric methane emission considering farmer's risk preferences and reduce enteric methane production. *Journal of Dairy Science* 99 (Suppl. 1): 589.
25. Liang, D. F. Sun, M. A. Wattiaux, **V. E. Cabrera**, J. Hedtcke, and E. M. Silva. 2016. Impact of corn or soybean in crops and lactating cow diets on estimated greenhouse gas emission from Wisconsin certified organic dairy farms. *Journal of Dairy Science* 99 (Suppl. 1): 1201.
  26. **Cabrera, V. E.** 2015. Economics of production efficiency: Nutritional grouping. *Journal of Dairy Science* 98 (Suppl. 2): 350.
  27. Liang, D., T. F. Rutherford, and **V. E. Cabrera**. 2015. Optimal dairy farm management subject to greenhouse gas emissions constraints. *Journal of Dairy Science* 98 (Suppl. 2): 406.
  28. Kalantari, A. S., L. E. Armentano, R. D. Shaver, and **V. E. Cabrera**. 2015. Economic impact of nutritional grouping in dairy herds. *Journal of Dairy Science* 98 (Suppl. 2): M279.
  29. Weigel, K. A., A. A. Mikshovsky, and **V. E. Cabrera**. 2015. Western Dairy Management Conference. Reno, Nevada. 3-5 March 2015.
  30. **Cabrera, V. E.** 2014. USDA NC-2042 2013-2014 Wisconsin station report. Management systems to improve the economic and environmental sustainability of dairy enterprises (Rev. NC-1119). Lied Lodge & Conference Center, NE. 8-10 October 2014.
  31. **Cabrera, V. E.** 2014. Sustainable production of dairy farm systems. in Proc. VI Brazilian Symposium on Sustainable Agriculture and III International Symposium on Sustainable Agriculture, Federal University of Viçosa, Brazil. 26-27 September 2014.
  32. Krpalkova, L, **V. E. Cabrera**. J. Kvapilik, J. Burdych, and P. Crump. 2014. Effect of rearing period of heifers and herd level of milk yield on performance and profitability. In Proceedings 65th Annual Meeting of the EAAP. Copenhagen, Denmark. 25-29 August 2014.
  33. Lingqiao, Q., B. E. Bravo-Ureta, and **V. E. Cabrera**. 2014. From hot to cold: a preliminary analysis of climatic effects on the productivity of Wisconsin dairy farms. In Proceedings 2014 Agricultural and Applied Economics Association Annual Meeting. Minneapolis, MN. 27-29 July 2014.
  34. Shahinfar, S., J. N. Guenther, D. Page, A. Samia-Kalantari, **V. E. Cabrera**. P. M. Fricke, and K. A. Weigel. 2014. Optimization of reproductive management programs using lift chart analysis and cost sensitive evaluation of classification errors. *Animal Science* 92 (E-Suppl. 2):576.
  35. Liang, D., and **V. E. Cabrera**. 2014. Optimizing concurrently dairy farm productivity and environmental performance. *Animal Science* 92 (E-Suppl. 2):571.
  36. Lingqiao, Q., B. E. Bravo-Ureta, and **V. E. Cabrera**. 2014. A preliminary analysis of climatic effects on the productivity of Wisconsin dairy farms. In Proceedings VI Congreso de Eficiencia y Productividad. Cordoba, Spain. 26-28 May 2014.
  37. **Cabrera, V. E.**, and M. Dutreuil. 2014. Implementation of greenhouse gas mitigation
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- strategies on organic, grazing and conventional dairy farms. In Proceedings 11th European International Farming System Association Symposium of the Farming and Rural Systems. Berlin, Germany. 1-4 April 2014.
38. Bytyqi, H., M. Thaqi, F Hoxha, A. Misini, B. Haxhija, H. Mehmeti, **V. E. Cabrera**. 2014. Economic assessment of dairy farm production in Kosovo. In Proceedings 11th European International Farming System Association Symposium of the Farming and Rural Systems. Berlin, Germany. 1-4 April 2014.
39. Kalantari, A., and **V. E. Cabrera**. 2013. Stochastic economic evaluation of dairy farms' reproductive performance. *Journal of Animal Science* 91 (E-Suppl. 2):791.
40. Shahinfar, S., A. S. Kalantari, **V. E. Cabrera**, and K. A. Weigel. 2013. Retention pay-off prediction using machine learning algorithms. *Journal of Animal Science* 91 (E-Suppl. 2):709.
41. Kalantari, A., and **V. E. Cabrera**. 2013. Agreement of dairy cattle replacement policies by two models: Optimization and simulation. *Journal of Animal Science* 91 (E-Suppl. 2):TH380.
42. Hardie, C. A., M. Dutreuil, R. Gildersleeve, M. Wattiaux, N. S. Keuler, and **V. E. Cabrera**. 2013. Impact of feeding strategies on milk production and profitability on Wisconsin organic dairy farms. *Journal of Animal Science* 91 (E-Suppl. 2):TH378.
43. Souza, A. H., P. A. Carvalho, R. D. Shaver, M. C. Wiltbank, and **V. E. Cabrera**. 2013. Epidemiology of synchronization programs for breeding management in US dairy herds. *Journal of Animal Science* 91 (E-Suppl. 2):W182.
44. Souza, A. H., P. A. Carvalho<sup>1</sup>, R. D. Shaver, M. C. Wiltbank, and **V. E. Cabrera**. 2013. Impact of timed AI use on reproductive performance and culling rate in Wisconsin dairy herds. *Journal of Animal Science* 91 (E-Suppl. 2):W303.
45. **Cabrera, V. E.**, P. M. Fricke, P. L. Ruegg, R. D. Shaver, M. C. Wiltbank, K. A. Weigel, and M. Cordoba. 2013. An integrated approach to improve dairy cow fertility. Pp. 45-51 in Proceedings USDA Agriculture and Food Research Initiative Animal Reproduction Project Director Meeting. Montreal, QC. July 2013.
46. **Cabrera, V. E.** 2012. USDA NC-1042 2011-2012 Wisconsin station report. Management systems to improve the economic and environmental sustainability of dairy enterprises (Rev. NC-1119). Hickory Corner, MI. 11-13 October 2012.
47. **Cabrera, V. E.**, M. Dutreuil, C. Hardie, R. Gildersleeve, M. Wattiaux, and D. Combs. 2012. Strategies of pasture supplementation on organic and conventional grazing dairies: Assessment of economic, production and environmental outcomes. Pp. 27-30 in Proceedings USDA Institute of Food Production and Sustainability, Organic Programs Project Directors Meeting. Washington DC. 3-4 October 2012.
48. **Cabrera, V. E.**, P. M. Fricke, P. L. Ruegg, R. D. Shaver, M. C. Wiltbank, K. A. Weigel, and M. Cordoba. 2012. An integrated approach to improve dairy cow
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fertility. Pp. 71-76 in Proceedings USDA Agriculture and Food Research Initiative Animal Reproduction Project Director Meeting. State College, PA. 16 August 2012.

49. Dutreuil, M., **V. E. Cabrera**, R. Gildersleeve, C. A. Hardie, and M. A. Wattiaux. 2012. Impact of animal density on predicted greenhouse gas emission on selected conventional, organic, and grazing dairy farms in Wisconsin. *Journal of Animal Science* 90 (E-Suppl. 3):777.
  50. Kalantari, A. S., and **V. E. Cabrera**. 2012. The effect of reproductive performance on the herd value assessed by integrating a daily dynamic programming with a daily Markov chain model. *Journal of Animal Science* 90 (E-Suppl. 3):530.
  51. Dutreuil, M., **V. E. Cabrera**, R. Gildersleeve, C. A. Hardie, and M. A. Wattiaux. 2012. A cluster analysis to describe profitability on Wisconsin dairy farms. *Journal of Animal Science* 90 (E-Suppl. 3):M119.
  52. Aguerre, M., Giordano, J. O., Kalantari, A. S., M. Wattiaux, Fricke, P. M., and **V. E. Cabrera**. 2012. Impact of dairy herd reproductive performance simulated with a Markov-chain model on predicted enteric methane emission and excretion of N and P. *Journal of Animal Science* 90 (E-Suppl. 3):M240.
  53. Shahinfar, S., K. Weigel, D. Page, J. Guenther, **V. E. Cabrera**, and P. Fricke. 2012. Prediction of pregnancy outcome using machine learning algorithms. *Journal of Animal Science* 90 (E-Suppl. 3):M113.
  54. **Cabrera, V. E.** 2011. USDA NC-1042 2010-2011 Wisconsin station report. Management systems to improve the economic and environmental sustainability of dairy enterprises (Rev. NC-1119). University of Maryland, MD. 13-15 October 2011.
  55. Pinzón-Sánchez, C. **V. E. Cabrera**, and P. L. Ruegg. 2011. Decision tree analysis of treatment strategies for mild and moderate cases of clinical mastitis occurring in early lactation. Pp. 85-86 in Proceedings Third International Symposium of Mastitis and Milk Quality. St. Louis, MO. 22-24 September 2011.
  56. Dutreuil, M., M. A. Wattiaux, R. Gildersleeve, B. Barham, and **V. E. Cabrera**. 2011. Impact of feeding strategies on milk production and income over feed cost: A case study of organic, grazing, and conventional Wisconsin dairy farms. *Journal of Animal Science* 89 (E-Suppl. 1): 313.
  57. Souza, H., H. Rivera, P. Crump, and **V. E. Cabrera**. 2011. Estimating field conception rates for Holstein sires in US herds (ACE index) and conception rate correlation from the same sires used for AI after natural estrus and timed AI breedings. *Journal of Animal Science* 89 (E-Suppl. 1):26.
  58. Giordano, J. O., P. M. Fricke, M. C. Wiltbank, and **V. E. Cabrera**. 2011. Daily Markov-chain simulation model for selection of reproductive management programs in dairy herds. *Journal of Animal Science* 89 (E-Suppl. 1): 256.
  59. **Cabrera, V. E.**, P. M. Fricke, P. L. Ruegg, R. D. Shaver, M. C. Wiltbank, K. A. Weigel, and M. Cordoba. 2011. An integrated approach to improve dairy cow fertility. Pp. 128-129 in Proceedings USDA Agriculture and Food Research
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Initiative Joint Animal Systems Project Director Meeting. Washington D.C. 19-21 April 2011.

60. **Cabrera, V. E.**, R. R. Gildersleeve, M. A. Wattiaux, D. K. Combs, M. Dutreuil, and C. Hardie. 2011. Strategies of pasture supplementation on organic and conventional grazing dairies: Assessment of economic, production, and environmental outcomes. In Proceedings USDA National Institute of Food and Agriculture Organic Research and Extension Initiative Project Director Meeting. Washington D.C. 16-18 March 2011.
61. **Cabrera, V. E.** 2010. USDA NC-1042 2010-2011 Wisconsin station report. Management systems to improve the economic and environmental sustainability of dairy enterprises (Rev. NC-1119). Twin Falls, ID. 14-16 October 2010.
62. **Cabrera, V. E.**, P. M. Fricke, P. L. Ruegg, R. D. Shaver, M. C. Wiltbank, K. A. Weigel, and M. Cordoba. 2010. An integrated approach to improve dairy cow fertility. Pp. 49-50 in Proceedings USDA Animal Reproduction and Integrated Solutions to Animal Agriculture Annual Investigator Meeting. Milwaukee, WI. 3-4 August 2010.
63. Giordano, J. O., P. M. Fricke, P.M., M. C. Wiltbank, and **V. E. Cabrera**. 2010. A stochastic evaluation of reproductive management programs for dairy herds. *Journal of Dairy Science* 93 (E-Suppl. 1):807.
64. Valvekar, M., **V. E. Cabrera**, B. W. Gould. 2010. Optimal livestock gross margin for Dairy insurance contract design. *Journal of Dairy Science* 93 (E-Suppl. 1):1016.
65. Passos-Fonseca, T. H., H. A. Aguirre-Villegas, D. J. Reinemann, L. E. Armentano, **V. E. Cabrera**, and J. Norman. 2010. Green Cheese: LCA of Energy Intensity and GHG Emissions of Integrated Dairy Bio-Fuels Systems in Wisconsin. No.: 1008719 in Proceedings American Society of Agricultural and Biological Engineers Annual Meeting. Pittsburgh, PA. 20-23 June 2010.
66. **Cabrera, V. E.**, D. Solis, and J. del Corral. 2010. The effect of traditional practices in the efficiency of dairy farms in Wisconsin. *Journal of Agricultural and Applied Economics* 42:582.
67. **Cabrera, V. E.** 2009. USDA NC-1042 2008-2009 Wisconsin station report. Management systems to improve the economic and environmental sustainability of dairy enterprises (Rev. NC-1119). University of British Columbia, Canada. 14-16 October 2009.
68. **Cabrera, V. E.**, B. W. Gould, and M. Valvekar. 2009. Livestock gross margin insurance for dairy Cattle: an analysis of program performance and cost under alternative policy configurations. No.: 49262. AAEE, CAES, & WAEA Joint Annual Meeting. Milwaukee, WI. 26-28 July 2009.
69. Ruiz, M., and **V. E. Cabrera**. 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. *Journal of Dairy Science* 92 (E-Suppl. 1):W1.

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70. 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. *Journal of Dairy Science* 92 (E-Suppl. 1):T297.
  71. Reinemann, D. J., P. D. Thompson, K. G. Karthikeyan, L. E. Armentano, **V. E. Cabrera**, J. M. Norman, and T. H. Passos-Fonseca. 2009. Energy intensity and environmental impact of integrated dairy/bio-energy systems in Wisconsin, USA. *Proceedings 7th International Workshop: Modeling Nutrient Digestion and Utilization in Farm Animals*. Paris. 10-12 September 2009.
  72. Inostroza, J. F., R. D. Shaver, **V. E. Cabrera, V.E.**, and J. M. Tricarico. 2009. Effect of Optigen® on milk yield composition and component yields in commercial Wisconsin dairy farms. *Proceedings Alltech 25th International Symposium*. 17-20 May 2009. Lexington, KY.
  73. **Cabrera, V. E.** 2008. USDA NC-1042 2007-2008 Wisconsin station report. Management systems to improve the economic and environmental sustainability of dairy enterprises (Rev. NC-1119). Purdue University, West Lafayette, IN. 16-18 October 2008.
  74. **Cabrera, V.E.**, and D. Solis. 2008. Managing the newly created LGM-Dairy insurance under seasonal climate variability *Journal of Dairy Science* 91 (Suppl. 1):654.
  75. **Cabrera, V. E.** 2007. USDA NC-1042 2006-2007 Wisconsin station report. Management systems to improve the economic and environmental sustainability of dairy enterprises (Rev. NC-1119). Rochester, MN. 11-13 October 2007.
  76. **Cabrera, V. E.**, D. Solis, and D. Letson. 2007. Optimal crop-insurance strategies under climate variability: Contrasting insurer and farmer interests. No: 9708 in *Proceedings American Agricultural Economics Association Annual Meeting*. Portland, OR. July 29-August 1 2007.
  77. **Cabrera, V. E.** 2007. NM-Manure: a seasonal prediction model of manure excretion for lactating dairy cows in New Mexico. No.: 074171 in *Proceedings American Society of Agricultural and Biological Engineers Annual Meeting*. Minneapolis, MN. 18-20 June 2007.
  78. Langeveld, J. W. A., A. Crawford, M. Paine, S. Pinheiro, W. de Boef, I. S. Kristensen, J. Hermansen, B. Dedieu, P. E. Hildebrand, **V. E. Cabrera**, D. Jansen, and J. Dixon. 2006. Project setup and learning processes in participative systems oriented research initiatives. No: 9086860028 in *Proceedings 7th European International Farming System Association Symposium*. Wageningen, The Netherlands. 7-9 July 2006.
  79. **Cabrera, V. E.**, and D. Letson. 2006. Optimal climate crop insurance strategy: Contrasting insurer and farmer interests. In *Proceedings NOAA 2006 Climate Prediction Applications Science Workshop: Research and Applications on Use and Impacts*. Tucson, AZ. 21-24 March 2006.
  80. Hayes, R., **V. E. Cabrera**, and M. Baker. 2006. Impact of Extension in the Cañete Valley of Peru: A convergence of spatial, economical, statistical and anecdotal
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evidence. In Proceedings Cornell University's 3rd Annual Latin American Studies Program. Ithaca, NY. 24-25 February 2006.

81. **Cabrera, V. E.**, D. Letson, and G. Podesta. 2005. Climate information to reduce farm risk. No: 053057 in Proceedings American Society of Agricultural and Biological Engineers Annual Meeting.. Tampa, FL. 17-20 July 2005.
  82. **Cabrera, V. E.** 2005. Towards proactive environmental protection: the case of north Florida dairy farms and groundwater nitrogen pollution. Pp. 101 in Proceedings Society for Applied Anthropology Annual Meeting. Santa Fe, NM. 5-10 April 2005.
  83. **Cabrera, V. E.**, and D. Letson. 2005. The value of climate information when farm programs matter. In Proceedings Climate Prediction Applications Science Workshop Research and Applications on Use and Impacts. Palisades, NY. 15-17 March 2005.
  84. Fraise, C., J. Bellow, N. E. Breuer, **V. E. Cabrera**, G. Hoogenboom, and K. Ingram. 2005. A vision for the Southeast Climate Consortium Extension Program. In Proceedings Climate Prediction Applications Science Workshop Research and Applications on Use and Impacts. Palisades, NY. 15-17 March 2005.
  85. Jones, J. W., C. Fraise, P. E. Hildebrand, N. E. Breuer, **V. E. Cabrera**, and J. J. O'Brien. 2005. User-driven research and agricultural system decision support. In Proceedings American Association for the Advancement of Science Annual Meeting. Washington, D.C. February 2005.
  86. **Cabrera, V. E.**, and P. E. Hildebrand. 2004. Economic and ecologic assessment of groundwater nitrogen pollution from north Florida dairy farm systems: An interdisciplinary approach. Pp. 857-869 in Proceedings 6th European International Farming System Association Symposium of the Farming and Rural Systems. Vila Real, Portugal. 4-7 April 2004.
  87. Breuer, N. E., P. E. Hildebrand, and **V. E. Cabrera**. 2004. Assessing socioeconomic resilience of rural livelihood systems in an Ecuadorian agrosocioecosystem. Pp. 195-206 in Proceedings 6th European International Farming System Association Symposium of the Farming and Rural Systems. Vila Real, Portugal. 4-7 April 2004.
  88. **Cabrera, V.E.** 2004. Participatory modeling of north Florida dairy farm systems. Pp. 71 in Proceedings Society for Applied Anthropology Annual Meeting. Dallas, TX. March 31-April 4, 2004.
  89. **Cabrera, V. E.**, P. E. Hildebrand, and J. W. Jones. 2004. El Niño southern oscillation impact on nitrogen leaching in north Florida dairy forage systems. In Proceedings Climate Prediction Applications Science Workshop Research and Applications on Use and Impacts. Tallahassee, FL. 9-11 March 2004.
  90. Breuer, N.E., **V. E. Cabrera**, and P. E. Hildebrand. 2004. Continuous stakeholder feedback: Improving adoption and user-friendliness of climate variability-based information and tools for livestock production. In Proceedings Climate Prediction Applications Science Workshop Research and Applications on Use and
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Impacts. Tallahassee, FL. 9-11 March 2004.

91. **Cabrera, V. E.** 2004. Economic and ecologic assessment of groundwater nitrogen pollution from north Florida dairy farm systems: An interdisciplinary approach. Pp. 10 in Proceedings 68th Annual Meeting of the Florida Academy of Sciences. Orlando, FL. 11-13 March 2004.
92. **Cabrera, V. E.**, and J. W. Jones. 2004. El Niño Southern Oscillation impact on nitrogen leaching in north Florida dairy farm systems. Pp. 23 in Proceedings Biological Systems Simulation Conference. Gainesville, FL. 8-10 March 2004.
93. Sullivan, A. J., **V. E. Cabrera**, C. Pomeroy, and N. E. Breuer. 2002. People and the planet: Meeting the new millennium interdisciplinary ecology and farming systems at the University of Florida. Pp. 127 in Proceedings 17th Symposium International Farming Systems Association. Orlando, FL. 17-20 November 2002.
94. **Cabrera, V. E.**, N. E. Breuer, and P. E. Hildebrand. 2002. Assessing the impact of long-term climate forecasting on north central Florida livestock producers using linear programming. In Proceedings International Workshop on Regional Integrated Assessment of Climate Impacts. Pasco, Italy. 16-20 September 2002.
95. **Cabrera, V. E.**, M. Baker, and P. E. Hildebrand. 2000. Formative evaluation of Valle Grande Rural Institute. Pp. 144-155 in Proceedings 27th National Agricultural Education Research Conference. San Diego, CA. 6-9 December 2000.
96. **Cabrera, V. E.**, M. Baker, M., and P. E. Hildebrand. 2000. Farm problems, solutions, and extension programs for small farmers in Cañete, Peru. In Proceedings 16th Conference of the Association for International Agricultural and Extension Education. Arlington VA. March 29-April1, 2000.
97. **Cabrera, V.E.** 1999. Modeling diversity within an agricultural community in Peru. In Proceedings 4th Biennial Meeting of the North American Chapter International Farming Systems Association. Guelph, Canada. 20-23 October 1999.

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### **Invited Papers in Extension Conference Proceedings (24)**

1. Barrientos, J. A., E. Charbonneau, S. Binggeli, and **V. E. Cabrera**. 2018. Améliorer l'efficacité alimentaire et la précision des rations dans les fermes au Québec. Symposium sur les bovins laitiers. 30 October 2018. Centrexpo Cogeco, Drummondville, Canada.
  2. **Cabrera, V. E.** 2018. What are the economic advantages of grouping and feeding dairy cows by nutritional need? Proceedings of 29<sup>th</sup> Annual Florida Ruminant Nutrition Symposium. Gainesville, FL 5-7 February 2018.
  3. Mur-Novales, R. M., and **V. E. Cabrera**. 2017. What type of semen should I use? Proceedings Dairy Cattle Reproduction Council Annual Convention. Reno, NV 7-9 November 2017.
  4. **Cabrera, V. E.**, A. Ricci, and P. M. Fricke. 2017. Economics of dairy cattle improved fertility programs. Proceedings of the VI National and I International Congress of Turkish Society of Veterinary Gynecology. Marmaris, Turkey 12-15 October
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2017.

5. **Cabrera, V. E.**, and A. Bach. 2017. Feeding strategies and economic returns in robotic milking systems. Four-State Dairy Nutrition and Management Conference. Dubuque, IA, 14-15 June 2017.
  6. Colazo, M. G., J. O Giordano, and **V. E. Cabrera**. 2016. Economic evaluation of two reproductive management strategies in Alberta dairy herds. Western Canadian Dairy Seminar, Red Deer, Alberta, Canada.
  7. **Cabrera, V. E.** 2016. Helping dairy farmers to improve economic performance utilizing data-driven decision support system tools. 67<sup>th</sup> European Federation of Animal Science (EAAP). 29 August – September 2. Belfast, U.K.
  8. **Cabrera, V. E.** 2016. Interaction between reproductive management and economic efficiency: Use of the UW-Cornell Dairy Repro tool. In Proceedings of XXI International Congress ANEMBE of Bovine Medicine, Santiago de Compostela, Spain, May 11-13, 2016.
  9. **Cabrera, V. E.** 2016. Impact of nutritional grouping on the economics of dairy production efficiency. Tri-State Dairy Nutrition Conference. April 18-20, 2016. Grand Wayne Center, Fort Wayne, Indiana.
  10. **Cabrera, V. E.** 2015. Tools for making economic reproductive decisions. Pp. 102-111 in Proceedings Dairy Cattle Reproduction Council Annual Convention. Buffalo, NY 12-13 November 2015.
  11. **Cabrera, V. E.**, and A. Kalantari. 2014. Dietary grouping strategies to improve profitability on dairy farms. In Proceedings XIX International Congress ANEMBE of Bovine Medicine, pp. 151-159, Oviedo, Spain, 25-27 June 2014.
  12. **Cabrera V. E.** 2014. Using simulators to improve profitability on dairy farms. In Proceedings XIX International Congress ANEMBE of Bovine Medicine, pp. 160-170, Oviedo, Spain, 25-27 June 2014.
  13. **Cabrera, V. E.**, and A. Kalantari. 2014. Strategies to improve economic efficiency of the dairy. In Proceedings Western Canadian Dairy Seminar, Red Deer, Alberta, Canada, (WCDS) *Advances in Dairy Technology* 26:45-55.
  14. Dutreuil, M., Gildersleeve, R., and **V. E. Cabrera**. 2012. Dealing with high feed cost: Supplementation on pasture. In Proceedings *4<sup>th</sup> Annual World Dairy Expo Grazing Seminars*. Alliant Energy Center, Madison, WI. 5 October 2012
  15. Hardie, C. A., **V. E. Cabrera**, M. Dutreuil, and R. Gildersleeve. 2012. Characterization of certified organic Wisconsin dairy farms: Management practices, feeding regimes, and milk production. In Proceedings *UW-Extension Grazing, Teaching, and Technology Conference*. US Dairy Forage Research Center, Prairie du Sac, WI. 28 August 2012
  16. Dutreuil, M., **V. E. Cabrera**, R. Gildersleeve, and C. A. Hardie. 2012. Factors affecting profitability on Wisconsin dairy farms. In Proceedings *UW-Extension Grazing, Teaching, and Technology Conference*. US Dairy Forage Research Center, Prairie du Sac, WI. 28 August 2012.
  17. **Cabrera, V. E.**, F. Contreras, R. D. Shaver, L. E. Armentano. 2012. Grouping strategies for feeding lactating dairy cattle. Pp. 40-44 in Proceedings Four-State Dairy Nutrition and Management Conference. Dubuque, IA, 13-14 June 2012.
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18. **Cabrera, V. E.** 2011. Grouping strategies for feeding lactating dairy cattle. Pp. 17-33 in Proceedings 15<sup>th</sup> Annual UW-Arlington Dairy Day, Arlington, WI, 8 December 2011.
  19. **Cabrera, V. E.**, Giordano, J., Fricke, P. 2011. Economics of resynchronization with chemical tests to identify non-pregnant cows. Pp. 57-67 in Proceedings Dairy Cattle Reproduction Council Annual Convention. Kansas City, MO, 10-11 November 2011.
  20. Cordoba, M., and **V. E. Cabrera**. 2010. Repro Money: A team based program to improve the reproductive performance of your herd. Pp. 53-58 in Proceedings 14<sup>th</sup> Annual UW-Arlington Dairy Day, Arlington, WI, 8 December 2010.
  21. **Cabrera, V. E.**, and J. O. Giordano. 2010. Economic decision making for reproduction. Pp. 77-86 in Proceedings Dairy Cattle Reproduction Council Annual Convention. St. Paul, MN, 11-12 November 2010.
  22. **Cabrera, V. E.** 2010. The Wisconsin dairy feed cost evaluator. Pp. 105-114 in Proceedings Four-State Dairy Nutrition and Management Conference. Dubuque, IA, 9-10 June 2010.
  23. **Cabrera, V. E.** 2009. When to use sexed semen on heifers. 14 pages in Proceedings 13<sup>th</sup> Annual UW-Arlington Dairy Day, Arlington, WI, 9 December 2009.
  24. **Cabrera, V. E.** 2009. When to use gender biased semen: economics. Pp. 83-91 in Proceedings Dairy Cattle Reproduction Council Annual Convention. St. Paul, MN, 12-13 November 2009 and Boise, ID, 19-20 November 2009.
  25. **Cabrera, V. E.**, R. D. Shaver, and M. A. Wattiaux. 2009. Optimizing income over feed supplement costs. Pp. 116-120 in Proceedings Four-State Dairy Nutrition and Management Conference. Dubuque, IA, 10-11 June 2009.
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### **Refereed Extension Abstracts/Paper Proceedings (29)**

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1. Li, W., and **V. E. Cabrera**. 2019. Beef x Dairy: Fad or sustainable future? Dairy Cattle Reproduction Council Annual Meeting, Pittsburg, Pennsylvania.
  2. Li, W., and **V. E. Cabrera**. 2019. Economics of beef semen on dairy cattle. Western Dairy Management Conference, Reno, Nevada.
  3. Liang, D., S. Wangen, A. Christensen, H. Delgado, M. Ferris, and **V. E. Cabrera**. 2018. Virtual dairy farm brain. 2018 Professional Dairy Producers of Wisconsin Business Conference. Alliant Energy Center, Madison, 14-15 March 2018.
  4. Liang, D., H. Delgado, H. White, and **V. E. Cabrera**. 2018. Data up to your eyeballs. Proceedings 2018 Professional Dairy Producers of Wisconsin Business Conference. Alliant Energy Center, Madison, 14-15 March 2018.
  5. Barrientos, J., R. Shaver, **V. E. Cabrera**, and D. Liang. 2018. Improving nutritional accuracy and economics in commercial dairy farms. 2018 Professional Dairy Producers of Wisconsin Business Conference. Alliant Energy Center, Madison, 14-15 March 2018.
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6. Liang, D., A. Golechha, and **V. E. Cabrera**. 2018. Predicting Mastitis Using a Real-Time Data Warehouse. In Proceedings XXIII International Congress ANEMBE of Bovine Medicine, Vigo, Spain, 06-09 June 2018.
  7. Liang, D., H. Delgado, and **V. E. Cabrera**. 2018. A Virtual Dairy Farm Brain. In Proceedings XXIII International Congress ANEMBE of Bovine Medicine, Vigo, Spain, 06-09 June 2018.
  8. Liang, D., J. Tricarico, K. Weigel, **V. E. Cabrera**. 2017. Evaluating the effect of herd structure and milk production improvement on farm profitability and enteric methane emission. *Journal of Dairy Science* 100 (Suppl. 2): 412.
  9. **Cabrera, V. E.** 2016. Impact of nutritional grouping on the economics of dairy production efficiency. 67<sup>th</sup> European Federation of Animal Science (EAAP). 29 August – September 2. Belfast, U.K.
  10. Alvarez, A., **V. E. Cabrera**, and J. Heras. 2016. Profitability ranges in small and medium dairy farms in Northeast Spain in 2015. In Proceedings of XXI International Congress ANEMBE of Bovine Medicine, Santiago de Compostela, Spain, May 11-13, 2016.
  11. Lopes, G., and, **V. E. Cabrera**. 2014. Premium beef semen on dairy calculator. *Journal of Animal Science* 92 (E-Suppl. 2):288.
  12. Dutreuil, M., M. Wattiaux, R. Gildersleeve, and **V. E. Cabrera**. 2014. Modeling the impact of feeding and manure management strategies on Wisconsin organic, conventional and grazing farms to mitigate greenhouse gas (GHG) emissions. In Proceedings, the Midwest Organic and Sustainable Education Service Conference. La Crosse, WI. 27 February to 1 March 2014.
  13. Contreras-Govea, F. E., **V. E. Cabrera**, L. E. Armentano, R. D. Shaver, and P. M. Crump. 2014. Constraints for nutritional grouping in Wisconsin dairy farms. *Journal of Animal Science* 91 (E-Suppl. 2):TH192.
  14. Cordoba, M. C., P. M. Fricke, P. L. Ruegg, R. D. Shaver, K. A. Weigel, and **V. E. Cabrera**. 2014. An update on the Repro Money Program: A farmer-directed team-based extension program to improve reproductive performance in Wisconsin dairy herds. *Journal of Animal Science* 91 (E-Suppl. 2):TH198.
  15. Hardie, C. A., M. Dutreuil, R. Gildersleeve, and **V. E. Cabrera**. 2013. A comparison of feeding strategies on Wisconsin organic dairy farms. In Proceedings *The Midwest Organic and Sustainable Education Service Conference*. La Crosse, WI. 23 February 2013.
  16. Cordoba, M. C., P. M. Fricke, P. L. Ruegg, R. D. Shaver, K. A. Weigel, and **V. E. Cabrera**. 2012. Repro Money: A farmer directed team-based extension program to improve reproductive performance in Wisconsin dairy herds. 2012 Agricultural and Natural Resources Conference from UW-Extension. Wisconsin Dells. 10-12 October 2012.
  17. **Cabrera, V. E.**, R. D. Shaver, and P. C. Hoffman. 2012. Feed management decision-making tools for Wisconsin dairy farms. 2012 Agricultural and Natural Resources Conference from UW-Extension. Wisconsin Dells. 10-12 October 2012.
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18. Cordoba, M. C., P. M. Fricke, P. L. Ruegg, R. D. Shaver, K. A. Weigel, and **V. E. Cabrera**. 2012. Repro Money: A farmer directed team-based extension program to improve reproductive performance in Wisconsin dairy herds. *Journal of Animal Science* 90 (E-Suppl. 3):T81.
  19. Hardie, C. A., **V. E. Cabrera**, M. Dutreuil, R. Gildersleeve, and M. Wattiaux. 2012. Characterization of certified organic Wisconsin dairy farms: Management practices, feeding regimes, and milk production. *Journal of Animal Science* 90 (E-Suppl. 3):M239.
  20. Giordano, J. O., A. S. Kalantari, and **V. E. Cabrera**. 2011. Economic and reproductive outcome of programs combining timed artificial insemination and estrous detection simulated with a daily Markov-chain model. In Proceedings *21st ADSA Discover Conference: Improving Reproductive Efficiency of Lactating Dairy Cows*. Itasca, IL. 9-12 May 2011.
  21. Dutreuil, M., M. Wattiaux, and **V.E. Cabrera**. 2011. Impact of feeding strategies on milk production and milk income over feed cost: A case study of organic, grazing, and conventional Wisconsin dairy farm. In Proceedings *The Midwest Organic and Sustainable Education Service Conference*. La Crosse, WI. 25 February 2011.
  22. Janowski, J. M., and **V. E. Cabrera**. 2010. Differences between expanding and non-expanding Wisconsin dairy farms. *Journal of Animal Science* 93 (E-Suppl. 1):T321.
  23. Giordano, J. O., P. M. Fricke, M. C. Wiltbank, and **V. E. Cabrera**. 2010. An economic decision-making model for comparing reproductive management programs in dairy herds. *Journal of Dairy Science* 93 (E-Suppl. 3):58.
  24. **Cabrera, V. E.**, and J. Vanderlin. 2010. The Wisconsin dairy ratio benchmark tool. In Proceedings *National Farm Business Management Conference*. Fargo, ND. 13-17 June 2010.
  25. **Cabrera, V. E.**, J. Pantoja, P. L. Ruegg, and G. Shook. 2009. Decision-making for early postpartum subclinical mastitis. *Journal of Dairy Science* 92 (E-Suppl. 1):T13.
  26. Janowski, J., **V. E. Cabrera**. 2009. A stochastic decision support system tool for dairy expansion. *Journal of Dairy Science* 92 (E-Suppl. 1):T236.
  27. Inostroza, J. F., **V. E. Cabrera**, R. D. Shaver, and J. M. Tricarico. 2009. Evaluation of the economic impact of Optigen® use in commercial dairy herd diets with varying feed and milk prices. *Journal of Dairy Science* 92 (E-Suppl. 1):M131.
  28. Valvekar, M., **V. E. Cabrera**, and B. W. Gould. 2009. Analysis of program performance and cost under alternative policy configurations and market conditions. *Journal of Dairy Science* 92 (E-Suppl. 1):W102.
  29. Inostroza, J. F., **V. E. Cabrera**, R. D. Shaver, J. M. Tricarico. 2009. Evaluation of the economic impact of Optigen® use in commercial dairy herd diets with varying feed and milk prices. Proceedings *Alltech 25th International Symposium*. 17-20 May 2009. Lexington, KY.
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## **Other outreach publications (51)**

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1. **Cabrera, V. E.** 2019. Um cérebro virtual para gestão da informação recolhida nas explorações. Ruminantes, Abril-Maio-Junho 2019.
  2. **Cabrera, V. E.** 2019. Uso de herramientas de soporte de decisión para mejorar el rendimiento económico de los productores lecheros. Boletín ANEMBE 124, Abril, Mayo, Junio 2019.
  3. Bach, A., L. A. Quintela, **V. E. Cabrera**, A. de Prado. 2019. Strategies to improve the economic returns through dry-off management. CEVA- Dry Your Best Technical Publications.
  4. Aguirre-Villegas, H., R. A. Larson, M. D. Ruark, D. Liang, M. Wattiaux, L. Chase, **V. E. Cabrera**. 2018. Enteric methane emissions from dairy cows: Accounting techniques. Sustainable Dairy Fact Sheet Series, UW-Extension Learning Store.
  5. Aguirre-Villegas, H., R. A. Larson, M. D. Ruark, D. Liang, M. Wattiaux, L. Chase, **V. E. Cabrera**. 2018. Mitigation of enteric methane emissions from dairy cows. Sustainable Dairy Fact Sheet Series, UW-Extension Learning Store.
  6. **Cabrera, V. E.**, and J. O. Giordano. 2017. Vyhodnocení ekonomické hodnoty při změně reprodukce ního programu konkrétní mléčné farmy. Schaumann-úspěch vestáji - Czech.
  7. **Cabrera, V. E.** 2016. Evaluating the Economic Value of Changing the Reproductive Management Program for a Specific Dairy Farm. Engormix: 26 December 2016.
  8. **Cabrera, V. E.** 2016. Using simulators to improve profitability on dairy farms. Engormix: 7 December 2016.
  9. **Cabrera, V. E.** 2016. Dietary grouping strategies to improve profitability on dairy farms. Engormix: 7 October 2016.
  10. **Cabrera, V. E.** 2012. University of Wisconsin Extension Dairy Management Web article. The dairy herd value according to reproductive performance
  11. **Cabrera, V. E.** 2012. University of Wisconsin Extension Dairy Management Web article. Comparing the economic reproductive performance of timed artificial insemination and different levels of estrus detection
  12. **Cabrera, V. E.** 2012. University of Wisconsin Extension Dairy Management Web article. Assessing the economic value of a cow, the value of a new pregnancy, and the cost of a pregnancy loss
  13. **Cabrera, V. E.** 2011. University of Wisconsin Extension Dairy Management Web article. Improving your dairy farm bottom line by using price risk management.
  14. **Cabrera, V. E.** 2011. University of Wisconsin Extension Dairy Management Web article. Choose the best reproductive program for your dairy herd.
  15. **Cabrera, V. E.** 2011. University of Wisconsin Extension Dairy Management Web article. Differences between dairy farms planning to expand and farms not planning to expand.
  16. **Cabrera, V. E.** 2011. University of Wisconsin Extension Dairy Management Web article. Treatment strategies for mild and moderate cases of clinical mastitis in early lactation.
  17. Breuer, N. E., **V. E. Cabrera**, P. E. Hildebrand, and J. W. Jones. 2010. University of
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Florida IFAS Extension. Spanish publication from University of Florida Cooperative Extension. Opciones de manejo basadas en el clima para productores de ganado vacuno en el Centro-Norte de Florida.

18. **Cabrera, V. E.** 2010. University of Wisconsin Extension Dairy Management Web article. Exploring best replacement policies in dairy herds.
  19. **Cabrera, V. E.** 2010. University of Wisconsin Extension Dairy Management Web article. Get the most from livestock gross margin for dairy insurance.
  20. **Cabrera, V. E.** 2010. University of Wisconsin Extension Dairy Management Web article. Optigen® could be a viable substitute for high-priced Soybean.
  21. Janowski, J., and **V. E. Cabrera.** 2010. University of Wisconsin Extension Dairy Management Web article. Differences between expanding and non-expanding Wisconsin dairy farms.
  22. Dutreuil, M. C. Hurtaud, B. Martin, C. Agabriel, and **V. E. Cabrera.** 2010. University of Wisconsin Extension Dairy Management Web article. How feeding systems influence milk quality on French dairy farms?
  23. **Cabrera, V. E.,** K. Bolton, and P. Hoffman. 2009. University of Wisconsin Extension Dairy Management Web article. Cost-benefit of accelerated liquid feeding program for dairy heifers.
  24. **Cabrera, V. E.** 2009. University of Wisconsin Extension Dairy Management Web article. Economic analysis of switching milking frequency.
  25. **Cabrera, V. E.** 2009. University of Wisconsin Extension Dairy Management Web article. Economic value of sexed semen programs for dairy heifers.
  26. **Cabrera, V. E.,** R. D. Shaver, and M. A. Wattiaux. 2009. University of Wisconsin Extension Dairy Management Web article. Optimizing income over feed supplement cost (IOFSC).
  27. **Cabrera, V. E.,** B. W. Gould, and M. Valvekar. 2009. LGM-Dairy: livestock gross margin for dairy cattle. University of Wisconsin Extension Dairy Management Web article.
  28. Valvekar, M., **V. E. Cabrera,** and B. W. Gould. 2008. University of Wisconsin Extension Dairy Management Web article. LGM-Dairy: livestock gross margin for dairy, a new risk management tool available for Wisconsin dairy farmers.
  29. **Cabrera, V. E.** 2008. University of Wisconsin Extension Dairy Management Web article. Optimal corn grain feeding in Wisconsin dairy diets.
  30. Gould, B. W., P. Mitchell, and **V. E. Cabrera.** 2008. Marketing and Policy Briefing Paper 95, August 2008.
  31. **Cabrera, V. E.** 2008. University of Wisconsin Extension Dairy Management Web article, August 2008. Optimal corn grain feeding in Wisconsin dairy diets.
  32. **Cabrera, V. E.,** B. W. Gould, and M. Valvekar. 2008. LGM-Dairy: Dairy Management Brochure July 2008. Livestock gross margin for dairy cattle.
  33. Valvekar, M., **V. E. Cabrera,** and B. W. Gould. 2008. University of Wisconsin Extension Dairy Management Web article, July 2008. LGM-Dairy: Livestock gross margin for dairy, a new risk management tool available for Wisconsin dairy producers.
  34. **Cabrera, V. E.,** C. P. Mathis, R. E. Kirksey, and T. T. Baker. 2007 NMSU
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- Agricultural Experiment Station Bulletin 797. NM-Manure: A Seasonal Prediction Model for Manure Excretion by Dairy Cattle in New Mexico.
35. **Cabrera, V. E.**, M. Marsalis, and L. Lauriault. 2007. NMSU Cooperative Extension Service Publication. Las Cruces, NM. Circular 633. Using a computer application to predict irrigated alfalfa yield.
  36. **Cabrera, V. E.**, M. Marsalis, and L. Lauriault. 2007. NMSU Cooperative Extension Service Publication. Las Cruces, NM. Guide A-333. User manual of Alfalfa Yield Predictor.
  37. **Cabrera, V. E.**, R. Kirksey, and C. Mathis. 2007. NMSU Cooperative Extension Service Publication. Las Cruces, NM. Circular 611. Grazing-N: A Nitrogen Balance Model for Grazing Dairy Heifers and Dry Cows in New Mexico.
  38. **Cabrera, V. E.** 2007. NMSU Cooperative Extension Service Publication. Las Cruces, NM. Guide D-209. User manual of Grazing-N: A Nitrogen Balance Model for Grazing Dairy Heifers and Dry Cows in New Mexico.
  39. **Cabrera, V. E.**, and R. Hagevoort. 2007. NMSU Cooperative Extension Service Publication. Las Cruces, NM. Circular 613. Importance of the New Mexico dairy industry.
  40. **Cabrera, V. E.**, N. E. Breuer, J. G. Bellow, and C. W. Fraisse. 2006. SECC Technical Report Series SECC-06-001, Gainesville, FL. Extension agent knowledge and perceptions of seasonal climate forecast in Florida
  41. Breuer, N. E., G. Canales, **V. E. Cabrera**, P. E. Hildebrand, S. Galindo, T. Kulstad, T. Manganyi, M. Morris, L. Ramos, E. Stonebrook, and D. Toro. 2005. SECC Technical Report Series SECC-05-005, Gainesville, FL. Potential Applications of Seasonal Climate Forecasts for Water Management and Extension Agent Perceptions of Water Issues in South Florida.
  42. **Cabrera, V. E.**, D. Letson, and G. Podesta. 2005. SECC Technical Series SECC-05-004, Gainesville, FL. The value of climate information when farm programs matter.
  43. **Cabrera, V. E.**, N. E. Breuer, and P. E. Hildebrand. 2005. Coop. Ext. Serv. Circ. 1464 Univ. Florida, Gainesville, FL. Link. Climate-based management to reduce nitrate leaching from dairies in the Suwannee River Basin.
  44. Breuer, N. E., **V. E. Cabrera**, P. E. Hildebrand, and J. W. Jones. 2005. Coop. Ext. Serv. Circ. 1476 Univ. of Florida, Gainesville, FL. Link. Climate-based management options for north central Florida Beef Cattle Producers.
  45. Fraisse, C., J. Bellow, N. E. Breuer, **V. E. Cabrera**, J. W. Jones, K. T. Ingram, and G. Hoogenboom. 2005. Technical Report Series SECC-005-02. Gainesville, Florida. Strategic plan for the Southeast Climate Consortium extension program.
  46. Barham, J., Y. Gichon, S. Humphries, F. Rossi, D. Alvira, A. Rios, P. E. Hildebrand, **V. E. Cabrera**, and N. E. Breuer. 2004. Technical Report Series SECC 04-001. Assessment of the format, content, and potential uses of the AgClimate Website and crop yield risk assessment tool by extension agents in north Florida.
  47. **Cabrera, V. E.**, P. E. Hildebrand, and J. W. Jones. 2004. University of Florida, Food and Resource Economics Department, Staff Paper Series SP 04-01.
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- Gainesville, Florida. Modeling the effect of household composition on the welfare of limited-resource farmers in Cañete, Peru.
48. Hildebrand, P. E., N. E. Breuer, **V. E. Cabrera**, and A. J. Sullivan. 2003. University of Florida, Food and Resource Economics Department, Staff Paper Series, SP 03-05. Gainesville, Florida. Modeling diverse livelihood strategies in rural livelihood systems using ethnographic linear programming.
  49. Breuer, N. E., **V. E. Cabrera**, P. E. Hildebrand, and J. W. Jones. 2003. University of Florida, Food and Resource Economics Department, Staff Paper Series, SP 03-04. Gainesville, Florida. Potential response of north central Florida livestock producers to long-term climate forecasting.
  50. Hildebrand, P. E., and **V. E. Cabrera**. 2003. University of Florida, Food and Resource Economics Department, SP 03-03. Gainesville, Florida. Modeling and analyzing small farm livelihood systems with linear programming.
  51. Breuer, N. E., **V. E. Cabrera**, P. E. Hildebrand, and J. W. Jones. 2003. Potential response of north central Florida livestock producers to long-term climate forecasting. The Southeast Climate Consortium. Technical Report Series 01-03. Tallahassee, Florida.
  52. **Cabrera, V. E.**, and P. E. Hildebrand. 2003. University of Florida, Food and Resource Economics Department, Staff Paper Series, SP 03-02. Gainesville, Florida. Economic and ecologic assessment of groundwater nitrogen pollution from north-Florida dairy farms: an interdisciplinary approach.
  53. **Cabrera, V. E.**, M. Downs, M. Langholtz, A. Mugisha, R. Sandals, A. J. Shriar, and D. Veach. 1999. University of Florida, Food and Resource Economics Department, Staff Paper Series, SP 99-09. Gainesville, Florida. Potential use of long-range climate forecasts by agricultural extension agents in Florida: A Sondeo report.
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### **Extension Presentations**

Year	Number Presentations/Sessions <sup>1</sup>	Number Attendees
Before 2013	301	15,500
2014	23	2,124
2015	17	1,060
2016	20	1,725
2017	24	3,861
2018	22	2,425
2019	26	2,367
<b>Total</b>	<b>433</b>	<b>29,062</b>

<sup>1</sup>Country (times): Argentina (6), Belgium (1), Brazil (2), Canada (3), Chile (2), China (12), Colombia (1), Costa Rica (2); Czech Republic (2), Germany (3), Greece (1), Honduras (2), Hungary (1), Israel (1), Italy (4), Ireland (1), Mexico (7), New Zealand (1), North Cyprus (1), Panama (1), Peru (5), Poland (1), Portugal (1), Slovakia (2), Spain (11), Taiwan (1), Turkey (4), Uruguay (1), United Kingdom (1).

*Abbreviation key for attendees*

F = Farmers

C = Farm consultants, veterinarians, nutritionists, reproductive specialists, etc.

E = Extension faculty, county extension agents, etc.

A = Academia, students, instructors

G = Government functionaries (USDA, Department of Agriculture, etc.)

I = Allied industry representatives

N = Insurance agents

L = Lenders, bank representatives, financial specialists

	<b>Date</b>	<b>Title, event, location</b>	<b>Attendance</b>
	<b>2019</b>		
1.	12/17	<b>Decision making and data utilization on dairy farms.</b> Produktivität in Milchviehherden steigern. One-day seminar. Rotenburg, Germany.	F, C <b>120</b>
2.	12/14, 12/16	<b>Hands on dairy management decision support tools on dairy farms.</b> Two-day workshop. Agro-Prax, Ankum, Germany.	C <b>35</b>
3.	12/11- 12/13	<b>Dairy management decision support tools.</b> Three-day workshop. Herdenmanagement GmbH, Hofheim, Germany.	C, A <b>30</b>
4.	12/10	<b>Decision support tools and data integration on dairy farms.</b> Geld verdienen gesunden kühlen, Hofheim, Germany.	I, F, C <b>150</b>
5.	12/3	<b>Dairy management.</b> 434 Dairy Herd Management, Animal Science, Iowa State University. One-hour webinar.	A <b>45</b>
6.	11/21- 11/23	<b>DairyMBA-economic decisions on dairy farms.</b> Three-day workshop. FarmIN, Tomar, Portugal	C, F <b>35</b>
7.	11/20	<b>Applications for dairy farm management.</b> Nova Agro Vouga Program, Aveiro, Portugal	F, I <b>250</b>
8.	11/14	<b>Beef x Dairy: Fad or sustainable future?</b> Dairy Cattle Reproduction Council Annual Meeting, Pittsburg, Pennsylvania.	I, A, E <b>300</b>
9.	11/12	<b>Maximizing income over feed costs.</b> Increasing profitability series. Webinar Nebraska Extension Service.	F, E <b>30</b>
10.	11/6	<b>Data-driven decision-making on dairy farms.</b> 19 Congreso Internacional de Médicos Veterinarios Zootecnistas Especialistas en Bovinos, Torreón, Mexico.	I, E, A <b>150</b>
11.	8/5-8/9	<b>Economics and decision-making in dairy.</b> One-	A, C

	week Level 4 Curriculum Course, Dairy Farm Institute, Harbin, China.	35
12. 6/17-6/21	<b>Herramientas para la toma de decisiones para manejo en tambos lecheros.</b> Madison, Wisconsin (attendees from Argentina)	A, E, I 24
13. 5/20	<b>Developing a Dairy Brain.</b> Madison, Wisconsin. (attendees from Czech Republic)	A, E, I 8
14. 5/11	<b>Desarrollando un cerebro lechero, integración de datos en tiempo real. Toma de decisiones óptimas.</b> Expo Leche GILSA, Aguas Calientes, Mexico.	F, E, I, A 120
15. 3/27	<b>Developing a Dairy Brain.</b> Central Plains Dairy Expo, Sioux Falls, South Dakota.	I, E, A 40
16. 3/16	<b>Economics of sexed, conventional, and beef semen according to market condition.</b> Allflex China conference: Monitoring the life cycle of the cow, ZhouZhuang, China.	I, F, G 150
17. 3/15	<b>Developing a Dairy Brain: Real-time, data-integrated, data-driven, continuous modeling and decision-making engine.</b> Allflex China conference: Monitoring the life cycle of the cow, ZhouZhuang, China.	I, F, G 150
18. 3/6	<b>Model based dairy management decision making tools.</b> Agri-King 2019 Progressive Dairy Forum, Del Curley Conference Center, Fulton, Illinois.	I, E 40
19. 2/27	<b>Economics of beef semen on dairy cattle.</b> Western Dairy Management Conference, Reno, Nevada.	I, E, A 300
20. 1/23	<b>Developing a Virtual Dairy Farm Brain.</b> Spring 2019 Seminars open to the Cornell Community. Ithaca, New York.	A 50
21. 1/22	<b>Developing a Virtual Dairy Farm Brain.</b> 2019 Operations Managers Conference. Cornell Pro-DAIRY Program, Syracuse, New York.	F, I, E, A 80
<b>2018</b>		
22. 12/17-12/21	<b>Decision support tools in dairy farm management.</b> Hohhot, Inner Mongolia, China.	F, E, I 25
23. 11/19	<b>Dairy farm management and decision support in dairy farms in Wisconsin.</b> Tunghai University.	A, E 100
24. 11/12-11/16	<b>Dairy farm decision-making.</b> Level 3 Dairy Farm Institute. Harbin, China.	A, E, C 25
25. 10/30	<b>Nutritional grouping in Quebec farms.</b> Symposium sur les bovins laitiers 2018. Drummondville, Canada.	A, E, C, I 400
26. 10/30	<b>Nutritional grouping in Quebec farms.</b> Symposium sur les bovins laitiers 2018. Drummondville, Canada.	A, E, C, I 400

27. 10/01	<b>Dairy farm decision making.</b> Word Dairy Expo seminar series. Chilean group. Madison, WI.	A, E, C, I <b>20</b>
28. 08/13	<b>Decision support tools for dairy farm management.</b> China Agricultural University, Beijing, China.	A, E <b>20</b>
29. 08/06-08/10	<b>Economics and decision-making in dairy.</b> Level 4 Dairy Farm Institute. Harbin, China.	A, C <b>25</b>
30. 07/10	<b>Is Premium Beef Program an Option for Your Dairy Farm?</b> Wisconsin Farm Technology Days. Wood County, WI.	F, E, C, I <b>20</b>
31. 07/04	<b>A dairy farm brain.</b> International's Farm Systems Association. China, Greece.	A, E <b>50</b>
32. 06/08	<b>Prediction of mastitis onset.</b> ANEMBE, Vigo, Spain.	A, E, C, I <b>100</b>
33. 06/07	<b>A dairy farm brain.</b> ANEMBE, Vigo, Spain.	A, E, C, I <b>200</b>
34. 06/06	<b>Dairy farm grouping strategies.</b> ANEMBE, Vigo, Spain.	A, E, C, I <b>100</b>
35. 06/05	<b>Field fertility in Holstein bulls: Can type of breeding strategy (artificial insemination following estrus versus timed artificial insemination) alter service sire fertility?</b> Sion-Israel, Tel Aviv, Israel.	A, E, G <b>25</b>
36. 06/04	<b>Helping dairy farmers to improve economic performance utilizing data-driving decision support tools.</b> Sion-Israel, Tel Aviv, Israel.	A, E, C <b>60</b>
37. 05/17	<b>The dairy farm industry in Wisconsin.</b> Massey University, Palmerston North, New Zealand.	A, E <b>40</b>
38. 04/10	<b>The economics of reproductive programs and fertility of cows in dairy herds. II.</b> Bölcs házy Day. Budapest, Hungary.	I, E <b>150</b>
39. 03/14	<b>Data up to your eye balls.</b> 2018 Professional Dairy Producers of Wisconsin Business Conference, Madison, WI.	F, E, C, I, A <b>100</b>
40. 03/01	<b>Economics of using Beef Semen on low genomic Holstein females.</b> Cros-Bred Program. Abbotsford, WI.	F, E, C, I <b>30</b>
41. 02/20	<b>Dairy farm management in Wisconsin.</b> Universidad de Caldas, Colombia.	A, E <b>50</b>
42. 02/06	<b>What are the economic advantages of grouping and feeding dairy cows by nutritional need?</b> Proceedings of 29th Annual Florida Ruminant Nutrition Symposium. Gainesville, FL.	A, E, C, I <b>400</b>
43. 01/09	<b>Premium beef programs: an option for your dairy farm? 2018 Cow College.</b> Fox Valley Technical College, Clintonville, WI.	E, C, F, I <b>100</b>

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**2017**

44. 12/19	<b>Decision support tools for dairy farm decision-</b>	A, E
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	<b>making.</b> ILVO-Flanders Research Institute. Ghent, Belgium	<b>18</b>
45. 12/5	<b>Decision-making in dairy farm management.</b> Zhejiang Academy of Agricultural Sciences, Hangzhou, China	A, E <b>20</b>
46. 11/30	<b>Cost benefits of new technologies.</b> Phibro Technical Seminar. Puerto Vallarta, Mexico.	C, I, E <b>100</b>
47. 11/09	<b>Breeding decision dilemma: What type of semen should I use?</b> Dairy Cattle Reproduction Council Annual Convention. Reno, NV.	C, I, A <b>100</b>
48. 11/08	<b>Capitalizing on improved fertility: What are my options?</b> Dairy Cattle Reproduction Council Annual Convention. Reno, NV. Preconference seminar	C, I, A <b>300</b>
49. 10/30-11/03	International Course Nestle Dairy Farming Institute – Level 3 – <b>Dairy farm economic decision making.</b> Harbin, China.	F, E, G <b>50</b>
50. 10/14	<b>Economics of dairy cattle improved fertility programs.</b> VI National and I International Congress of Turkish Society of Veterinary Gynecology. Marmaris, Turkey	C, I, F <b>300</b>
51. 09/21-22	Workshop: <b>Aspectos críticos para maximizar la rentabilidad de ganaderías lecheras.</b> General Pico, Argentina.	C <b>30</b>
52. 09/18	Workshop: <b>Aspectos críticos para maximizar la rentabilidad de ganaderías lecheras.</b> Villa Maria, Argentina.	A, I, C, F <b>70</b>
53. 09/13	<b>Strategic management options to maximize dairy farm profitability.</b> Strategic Account Management Program. Kusadasi, Turkey.	I, C, F <b>60</b>
54. 09/13	<b>Economic impacts of mastitis.</b> Strategic Account Management Program. Kusadasi, Turkey.	I, C, F <b>60</b>
55. 08/7-11	International Graduate Study Course Nestle Dairy Farming Institute – Level 4. <b>Advanced Dairy Herd Management.</b> Harbin, China.	A, C <b>18</b>
56. 08/01	<b>Herramientas de soporte para la toma de decisiones prácticas en el manejo de la ganadería lechera.</b> XL	A, C, I, F <b>400</b>



Reunión Científica Anual, Asociación Peruana de Producción Animal. Universidad Nacional Toribio Rodríguez de Mendoza, Chachapoyas, Peru.

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|-----------|---|-----------------------------|
| 57. 07/18 | <b>Nutritional considerations in robotic herds.</b> Dairy Robotics Workshop. University of Nebraska Extension. Plainview, NE.                     | F, C, I<br><b>120</b>       |
| 58. 06/30 | <b>Aspectos críticos para maximizar la rentabilidad de ganaderías lecheras.</b> Congreso CEBS, Tilajari San Carlos, Costa Rica.                   | C, I<br><b>500</b>          |
| 59. 06/14 | <b>Feeding strategies and economic returns in robotic milking systems.</b> Four-State Dairy Nutrition and Management Conference. Dubuque, IA.     | C, I, A, E<br><b>300</b>    |
| 60. 05/24 | <b>Economics of nutritional grouping.</b> Lely North America FMS Conference. Fair Oaks Farms, IN.   | C, I, E, A<br><b>300</b>    |
| 61. 04/10 | <b>Critical aspects to improve dairy farm feed efficiency.</b> Parnell meeting. Kansas City, MO.  | I<br><b>15</b>              |
| 62. 03/30 | <b>Kde sú ešte možnosti redukcie nákladov na farmách dojníč?</b> AgroBiznis 2017. Nitra, Slovakia   | C, I, F, E, A<br><b>300</b> |
| 63. 03/28 | <b>Ekonomická hodnota dojnice.</b> Meeting of the Holstein Association of Slovakia. Nitra, Slovakia   | C, I, F, E<br><b>200</b>    |
| 64. 02/10 | <b>Reproductive economic management: tools and concepts.</b> Cremona, Italy   | C, I<br><b>100</b>          |
| 65. 02/09 | <b>Il valore economico di una bovina da latte e le sue enormi implicazioni.</b> Cirio Agricola Dairy Meeting, Caserta, Italy.                     | C, I, F<br><b>250</b>       |
| 66. 02/08 | <b>Gestione di opportunità strategiche per massimizzare il profitto di un allevamento da latte.</b> Cirio Agricola Dairy Meeting, Caserta, Italy. | C, I, F<br><b>300</b>       |
| 67. 02/08 | <b>Strategie di alimentazione per ottimizzare efficienza alimentare e profittabilità.</b> Cirio Agricola Dairy Meeting, Caserta, Italy.           | C, I, F<br><b>300</b>       |

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**2016**

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| 68. 11/18 | <b>Research and extension at 2015/2016 sabbatical in</b> | C, I, F |
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	<b>Spain – Webinar.</b>	<b>40</b>
69. 11/7-11	International Course Nestle Dairy Farming Institute – Level 3 – <b>Dairy farm economic decision making.</b> Harbin, China.	F, E, G <b>20</b>
70. 10/26	Workshop: <b>Decision support tools for evaluating economics of reproductive programs.</b> Wroclaw, Poland.	C, I <b>25</b>
71. 10/25	<b>Economics of fertility in high-yielding dairy cows.</b> Dairy reproductive conference. October 25-26, 2016. Wroclaw, Poland.	C, I <b>100</b>
72. 8/29-9/2	<b>*Helping dairy farmers to improve economic performance utilizing data-driven decision support system tools.</b> 67th European Federation of Animal Science (EAAP). Belfast, U.K.	A, E, C <b>100</b>
73. 8/1-6	International Graduate Study Course Nestle Dairy Farming Institute – Level 4. <b>Advanced Dairy Herd Management.</b> Harbin, China.	A, C <b>20</b>
74. 07/13	<b>Importance and use of data to evaluate reproduction economics. 2016 Parnell Forum - The Power of Data.</b> Napa Valley, California.	C, I, E <b>50</b>
75. 06/14-16	<b>The economic value of dairy cows.</b> SK Farms. Bratislava, Slovakia.	C, I <b>10</b>
76. 05/25-28	<b>*Fertility associated economic losses of farms.</b> 4th Health Management & Symposium, Maritim Pine Beach Otel - Antalya, Turkey.	C, I, A, G <b>400</b>
77. 05/20	<b>*Economic value of dairy cows. Department of Cattle Breeding.</b> Institute of Animal Science, Prague, Czech Republic.	A, E, C, I <b>150</b>
78. 05/12	<b>Rangos de rentabilidad en explotaciones pequeñas y medianas de vacuno lechero en el noroeste de España durante el año 2015.</b> ANEMBE 2016, Santiago de Compostela, Spain. Spain.	F, C, I, A <b>50</b>
79. 05/11	<b>*Interacción entre la gestión reproductiva y la eficiencia económica: Herramienta Wisconsin-Cornell</b>	F, C, I, A <b>70</b>

**Dairy Repro.** ANEMBE 2016 Seminario: Gestión de la reproducción en granja: Uso e interpretación de los datos reproductivos Santiago de Compostela, Spain.

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| 80. | 04/27-28 | <b>Mejora de la Rentabilidad lechera a través de la recría.</b> BLANCA from the Pyrenees, Spain.  | C, I, F<br><b>40</b>     |
| 81. | 04/18-20 | <b>*Impact of nutritional grouping on the economics of dairy production efficiency.</b> Tri-State Dairy Nutrition Conference. Grand Wayne Center, Fort Wayne, Indiana.      | A, C, I, F<br><b>400</b> |
| 82. | 04/12-14 | <b>*GIORNATA BUIATRICA Ottimizzazione dei costi economici attraverso la buona gestione veterinaria: Dry cow period, Reproduction, Value of a cow.</b> Reggio Emilia, Italy. | C, I, F, A<br><b>120</b> |
| 83. | 04/04-06 | <b>Efficiency improvement of dairy farms.</b> BLANCA from the Pyrenees, Spain. April 04-06, 2016.   | C, I, F<br><b>50</b>     |
| 84. | 02/16-17 | <b>Economic efficiency of dairy farms.</b> BLANCA from the Pyrenees, Spain. February 16-17, 2016.   | C, I, F<br><b>40</b>     |
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- 2015**
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| 85. | 11/30-12/04 | International Course Nestle Dairy Farming Institute – Level 3 – <b>Dairy farm economic decision making.</b> Harbin, China.   | F, E, G<br><b>20</b>        |
| 86. | 11/16       | <b>Critical aspects of profitability on dairy farms.</b> Universidad Autonoma de Barcelona.                                  | E, A<br><b>25</b>           |
| 87. | 11/13       | <b>*Tools for making economic reproductive decisions.</b> Dairy Cattle Reproduction Council Annual Convention. Buffalo, NY.  | F, C, A, E, I<br><b>150</b> |
| 88. | 10/30       | <b>Critical aspects to maximize profitability in dairy farming.</b> Fiera Internazionale del Bovino da Latte. Cremona, Italy | F, C, G, I<br><b>100</b>    |
| 89. | 10/21       | <b>Wisconsin research advancement and vision for the future.</b> IRTA, Torre Marimon, Barcelona, Spain.                      | E, A<br><b>15</b>           |
| 90. | 10/13-10/14 | <b>*Economic evaluation of reproductive programs.</b> Wisconsin Repro Workshop. Blanca from the Pyrenees. Lleida, Spain.     | F, C, I<br><b>48</b>        |

91.	10/8	<b>*The money you would gain by improving herd fertility.</b> CEVA Herd Health Symposium. Carts Resort, North Cyprus.	F, C, I <b>100</b>
92.	09/14-09/16	<b>*Workshop of dairy farm management tools.</b> Río Cuarto, Argentina.	F, C, I, G, I <b>72</b>
93.	09/16	<b>Dairy farm management tools.</b> Consultant group. Río Cuarto, Argentina.	C, I <b>30</b>
94.	09/16	<b>Dairy farm management tools.</b> Teknal group. Río Cuarto, Argentina.	C, I <b>30</b>
95.	09/09	<b>*Losses of milk production in gradual dry off.</b> CEVA - Blanca Workshop, Lleida, Spain.	F, C, I <b>48</b>
96.	7/27-31	International Graduate Study Course Nestle Dairy Farming Institute – Level 4. <b>Advanced Dairy Herd Management.</b> Harbin, China.	A, C <b>20</b>
97.	07/22	<b>Economic tools for dairy farm decision-making.</b> Dairy Japan Magazine group in Madison. University of Wisconsin-Madison	F, C, E, A <b>10</b>
98.	5/18	<b><i>The Wisconsin dairy farm industry.</i></b> University of Wisconsin Idea Seminar.	A <b>40</b>
99.	05/08	<b>Decision support tool for genomic testing of calves.</b> Four-State Planning Meeting. Dubuque, IA.	E, A <b>20</b>
100	05/07	<b>Dairy management tools.</b> Brazilian group in Madison. University of Wisconsin-Madison	F, C, E, A <b>40</b>
101	04/16	<b>*Estrous Detection, Timed-AI or a combination.</b> CEVA Training. Berlin, Germany. 15 April 2015.	C, I <b>50</b>
102	04/15	<b>*Economic value of improving reproductive performances.</b> CEVA Training. Berlin, Germany. 15 April 2015.	C, I <b>50</b>
103	01/06-01/26	<b>*Management tools to increase dairy cow feed efficiency.</b> Seven locations. Wisconsin Feed Efficiency Workshops 2015.	F, C, E <b>150</b>
104	01/13-01/14	<b>*Reproduction management and its economic value.</b> Wisconsin University & Blanca Workshop. Practical High-	F, C, I <b>48</b>

Level Dairy Management. Blanca from the Pyrenees, Lleida, Spain.

<b>2014</b>		
10E 11/19	<b>Strategies to improve economic efficiency.</b> Shur-Gain Dairy Seminar. Stratford, Canada.	F, C, I <b>120</b>
10E 11/18	<b>Strategies to improve economic efficiency.</b> Shur-Gain Dairy Seminar for Veterinarians. Stratford, Canada.	C, I <b>20</b>
107 10/27	<b>Decision support tools for dairy farm management.</b> COCHRAN group from Mexico, Guatemala, and Trinidad & Tobago. University of Wisconsin-Madison.	A, G <b>6</b>
10E 10/24	<b>Dairy farm decision-making using DairyMGT.info tools.</b> Farm La Querencia, Lurín, Lima, Peru.	F, C <b>12</b>
10E 10/22	<b>Dairy farm production systems.</b> XXXVII Reunión Científica de la Asociación Peruana de Producción Animal - APPA. Facultad de Medicina Veterinaria y Zootecnia, Universidad Micaela Bastidas, Abancay, Perú.	C, A, I <b>200</b>
11C 10/21	<b>Selected group of decision support tools for dairy farm management.</b> Seminario Internacional Innovación en Reproducción. Pre-Congreso XXXVII Reunión Científica de la Asociación Peruana de Producción Animal - APPA. Facultad de Medicina Veterinaria y Zootecnia, Universidad Micaela Bastidas, Abancay, Perú.	C, A, I <b>50</b>
111 10/21	<b>Reproductive economic decisions.</b> Seminario Internacional Innovación en Reproducción. Pre-Congreso XXXVII Reunión Científica de la Asociación Peruana de Producción Animal - APPA. Facultad de Medicina Veterinaria y Zootecnia, Universidad Micaela Bastidas, Abancay, Perú.	C, A, I <b>50</b>
11Z 09/09-09-11	<b>Economic impacts of lameness.</b> Putting values to the health and replacements in dairy farms. Universidad Tecnológica de Uruguay Technical Workshops. 3 locations: Colonia, Florida, San Jose. Uruguay.	C, F <b>40</b>
11E 09/09-09-11	<b>Economic impacts of reproductive affections.</b> Putting values to the health and replacements in dairy farms. Universidad Tecnológica de Uruguay Technical Workshops. 3 locations: Colonia, Florida, San Jose. Uruguay.	C, F <b>40</b>

114	09/09-09-11	<b>Economic impacts of mastitis.</b> Putting values to the health and replacements in dairy farms. Universidad Tecnológica de Uruguay Technical Workshops. 3 locations: Colonia, Florida, San Jose. Uruguay.	C, F <b>40</b>
11E	09/06	<b>Milk production sustainable systems.</b> Kellogg Foro Latin America. Panama City, Panama. 4-7 September 2014.	A, G, E <b>50</b>
11E	06/26	<b>*The application of simulators to improve profitability of dairy farms.</b> XIX International Congress of Bovine Medicine. Oviedo, Spain.	F, C, I <b>200</b>
117	06/26	<b>*Group feeding management in dairy farming.</b> XIX International Congress of Bovine Medicine. Oviedo, Spain.	F, C, I <b>200</b>
11E	06/12	<b>Group feeding.</b> Improvement of the dairy farm enterprise. Continued Professional Development. Blanca from the Pyrenees. Lleida, Spain.	C, I <b>20</b>
11E	06/12	<b>Labor management and organization.</b> Improvement of the dairy farm enterprise. Continued Professional Development. Blanca from the Pyrenees. Lleida, Spain.	C, I <b>20</b>
12C	06/12	<b>The herd value and its management implications.</b> Improvement of the dairy farm enterprise. Continued Professional Development. Blanca from the Pyrenees. Lleida, Spain. 10-12 June 2014.	C, I <b>20</b>
121	06/12	<b>The cow value and its management implications.</b> Improvement of the dairy farm enterprise. Continued Professional Development. Blanca from the Pyrenees. Lleida, Spain. 10-12 June 2014.	C, I <b>20</b>
12Z	06/11	<b>Feed price management.</b> Improvement of the dairy farm enterprise. Continued Professional Development. Blanca from the Pyrenees. Lleida, Spain. 10-12 June 2014.	C, I <b>20</b>
12E	06/11	<b>Value of reproductive programs.</b> Improvement of the dairy farm enterprise. Continued Professional Development. Blanca from the Pyrenees. Lleida, Spain. 10-12 June 2014.	C, I <b>20</b>

124	06/10	<b><i>The challenge of growing the dairy farm.</i></b> Improvement of the dairy farm enterprise. Continued Professional Development. Blanca from the Pyrenees. Lleida, Spain. 10-12 June 2014.	C, I <b>20</b>
12E	03/12	<b><i>Decision support tools for dairy farm management and decision-making with emphasis on reproduction and nutrition.</i></b> First workshop of Alta-Cialis Advantage Group. Junín, Santa Fe, San Francisco, Esperanza, Argentina. Four times.	F, C, I <b>40</b>
12E	03/12	<b><i>*Strategies to improve economic efficiency of the dairy.</i></b> Western Dairy Canadian Dairy Seminar. Red Deer, Canada.	F, C, I <b>900</b>
127	02/27	<b><i>Dairy management tools.</i></b> Central Wisconsin Dairy Series. Elroy, WI.	F, E <b>16</b>

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### **Grants: Funding Support for Research and Extension (28)**

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1. **Cabrera, V. E.**, M. Ferris, M. Livny, J. Patel, K. A. Weigel, H. White. 2019-2022. Developing a Dairy Brain: The Next Big Leap in Dairy Farm Management Using Coordinated Data Ecosystems. USDA-NIFA-Food and Agriculture Cyberinformatics. **\$1,000,000.**
  2. **Cabrera, V. E.**, K. A. Weigel, H. White, M. Ferris, J. Patel, and M. Livny. 2017-2019. A virtual dairy farm brain. UW2020 Initiative. **\$500,000.**
  3. Combs, D., **V. E. Cabrera**, K. Nielsen. 2017-2019. UW-Madison-Nestle Dairy Farm Institute Collaborative Training Agreement. **\$771,000.**
  4. **Cabrera, V. E.** 2017-2018. Continue delivering high-impact dairy farming decision support tools. University of Wisconsin-Madison Graduate School. **\$51,500.**
  5. Choi, C., **V. E. Cabrera**, and Cook, N. 2017-2018. Development of sustainable dairy cattle housing for heat stress mitigation. USDA Hatch Multistate Multiple Investigator. **\$60,000.**
  6. **Cabrera, V. E.** 2016-2018. Vilas Faculty Mid-Career Investigator Award. **\$50,000.**
  7. **Cabrera, V. E.** 2015-2016. Precision feeding for improving feed efficiency of lactating dairy cattle. The Organisation for Economic Co-operation and Development (OECD-Europe). Co-operative Research Programme: Biological Resource Management for Sustainable Agricultural Systems. **\$14,000.**
  8. Brito, A. F., A. S. Grandy, R. G. Smith, E. Silva, and **V. E. Cabrera**. 2015-2016. A Planning network of organic farmers, researchers, and dairy processors to optimize productivity and resiliency of forage production on organic dairy farms. OREI-USDA Planning Grant. **\$50,000.**
  9. **Cabrera, V. E.**, and R. D. Shaver. 2015-2019. Nutritional grouping strategies for feeding dairy cattle to improve health, profit, and environmental outcomes of
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- dairy farms. USDA Hatch Multistate Multiple Investigator. **\$121,000.**
10. **Cabrera, V. E.** 2013-2017. Improving long-term dairy farm sustainability applying whole-farm best management practices that enhance profitability and decrease environmental impacts: A high-level integrated assessment. USDA Hatch Multistate Single Investigator. **\$165,000.**
  11. **Cabrera, V. E.**, and K. A. Weigel. (Co-PDs). 2013-2014. Development of a genomic testing decision support tool for Jersey dairy calves. American Jersey Cattle Association Research Foundation. **\$11,000.**
  12. Bravo-Ureta, B. (PD), A. De Vries, A., R. Mosheim, and **V. E. Cabrera.** 2012-2016. Interaction between productivity growth and environmental factors for multi-output farms with a dairy focus. USDA National Institute of Food and Agriculture, Agriculture and Food Research Initiative Competitive Grant Programs: Agriculture Economics and Rural Communities. **\$318,000.**
  13. VandeHaar, M. (PD), K. A. Weigel, L. E. Armentano (WI-PD), D. Moody Spurlock, R. Tempelman, R. Veerkamp, **V. E. Cabrera,** M. Worku, M. Hanigan, C. Staples, D. Beede, R. D. Shaver, M. A. Wattiaux, J. Dijkstra, R. Pursley, and M. Weber Nielsen. 2011-2016. Genomic selection and herd management tools to improve feed efficiency of the dairy industry. USDA National Institute of Food and Agriculture, Agriculture and Food Research Initiative Competitive Grants Program: Improving Sustainability by Improving Feed Efficiency of Animals. **\$5,000,000.**
  14. **Cabrera, V. E.** (PD), P. M. Fricke, P. L. Ruegg, R. D. Shaver, K. A. Weigel, and M. C. Wiltbank. 2010-2015. An integrated approach to improving dairy cow fertility. USDA National Institute of Food and Agriculture, Agriculture and Food Research Initiative Competitive Grants Program: Integrated Solutions for Animal Agriculture. **\$1,000,000.**
  15. **Cabrera, V. E.** (PD), R. R. Gildersleeve, M. A. Wattiaux, and D. K. Combs. 2010-2014. Strategies of pasture supplementation on organic and conventional grazing dairies: Assessment of economic, production and environmental outcomes. USDA National Institute of Food and Agriculture Organic Agriculture Research and Extension Initiative. **\$575,000.**
  16. **Cabrera, V. E.** 2011-2013. Development of a suite of dairy reproduction decision support tools. USDA Hatch Multistate Single Investigator. **\$83,000.**
  17. Gould, B. W., and **V. E. Cabrera.** (Co-PDs). 2011-2013. Delivery of educational materials to increase LGM-Dairy utilization by dairy farm operators in general and limited resource operators. USDA Risk Management Education and Outreach Partnership Program, Competitive Cooperative Partnership Agreements. **\$86,000.**
  18. Gould, B. W., and **V. E. Cabrera.** (Co-PDs). 2011-2013. Training in the use and utilization of an integrated dairy price and margin risk management system for planning purposes. USDA National Institute of Food and Agriculture, North Central Risk Management and Education Center. **\$50,000.**
  19. Nienhuis, J. (PD), **V. E. Cabrera,** and international partners. 2011-2013. Seeds of
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- Hope. US Agency for International Development. **\$186,000.**
20. Wattiaux, M. A. (PD), B. Barham, M. Bell, **V. E. Cabrera**, and J. Harrison Pritkin. 2009-2013. Integrated analysis of diverse dairy systems in Mexico and Wisconsin: Building capacity for multidisciplinary appraisal of sustainability. USDA National Institute of Food and Agriculture International Science and Education Grants Program. **\$150,000.**
  21. Gould, B. W., and **V. E. Cabrera**. (Co-PDs). 2011-2012. An integrated Web-based information system to improve Wisconsin dairy farms' price risk management and sustainability. University of Wisconsin-Madison Graduate School. **\$15,000.**
  22. Reinemann, D. J. (PD), and **V. E. Cabrera**. 2010-2012. Energy intensity, carbon footprint, and environmental impact of pasture-based dairy. USDA Natural Resource and Conservation Service, Grazing Land Conservation Initiative, Wisconsin Department of Agriculture Trade and Consumer Protection. **\$75,000.**
  23. Bolton, K., and **V. E. Cabrera**. (Co-PDs). 2010-2011. A Sustainable Wisconsin Dairy Farm Financial Management Model. USDA North Central Risk Management and Education Center. **\$47,000.**
  24. Albarran, B. (PD), **V. E. Cabrera**, and other 4 from Mexico, 3 from Wisconsin, and 5 from Canada. 2010-2011. Linkage for Sustainable Development of Dairy Production Systems in Canada, the United States and México with an Emphasis on Social and Environmental Concerns. North American Research Linkages Program: Foreign Affairs and International Trade Canada. **\$20,000.**
  25. Powers, W. (PD), **V. E. Cabrera**, and other 28 scientists. 2010-2011. Planning grant: A regional approach to climate change planning for dairy and beef production systems. USDA Agriculture and Food Research Initiative Competitive Grants Program: Regional Approaches to Climate Change. **\$50,000.**
  26. **Cabrera, V. E.** 2010-2011. Translation of Dairy Management Tools. The Babcock Institute for International Dairy Research and Development. **\$10,000.**
  27. **Cabrera, V. E.**, and B. W. Gould. (Co-PDs). 2009-2011. Assessment of gross margin insurance versus traditional price risk management strategies under alternative biofuels and predicted climatic conditions: implications for Wisconsin dairy farms. USDA Hatch Multistate Multiple Investigator. **\$58,000.**
  28. **Cabrera, V. E.** (PD), and J. Vanderlin. 2009-2010. Success for small beginning dairy farmers. USDA North Central Risk Management Education Center. **\$39,000.**
  29. **Cabrera, V. E.** 2008-2010. Development of a dairy economic decision support system for Wisconsin. USDA Hatch Single Investigator. **\$54,000.**
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### **Language skills (2)**

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1. Spanish, fluent, native
  2. English, fluent
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## **Mentoring Research Professionals and Students (19)**

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Oct 18 - Present	<b>Liliana Fadul</b> Postdoctoral Research Associate Data science analytics and artificial intelligence
Sep 18 - Present	<b>Wen Li</b> M.S. Student Strategies of semen utilization on reproductive programs
May 18 - Nov 18	<b>Andrea Bellingeri</b> Ph.D. intern from Italy Diet formulation and cropping plans in dairy farms
Sep 17 - Jul 18	<b>Edith Charbonneau</b> Sabbatical researcher Professor, University Laval, Quebec Sabbatical Researcher Farm decision making / Reproductive value
Mar - Aug 17	<b>Huichao Zheng</b> Sabbatical researcher Vice-Professor, Zhejiang Academy of Agricultural Sciences, Hangzhou Sabbatical Researcher Feed and forage pricing
Sep 17 – Present	<b>Hector Delgado</b> Postdoctoral Research Associate Database management and artificial intelligence
Sep 17 – Present	<b>Di Liang</b> Postdoctoral Research Associate Database management and artificial intelligence
Jan – May 12	<b>Julio O. Giordano</b> Postdoctoral Research Associate Economics of dairy reproductive programs Co-mentored Dr. P. M. Fricke Current Position: Assistant Professor, Cornell University
January 17 – Present	<b>Manfei Li</b> Ph.D. Student Integrated Farm System Model
June 17 – Present	<b>Jorge Barrientos</b> M.S. Student Nutritional grouping
Sep 15 – Present	<b>Yaqi Wu</b> M.S. Student Nutritional grouping
Sep 13 – Aug 17	<b>Di Liang</b> Ph.D. Student Integrated dairy farm system modeling

Jan 11 – May 15	<b>Afshin S. Kalantari</b> Ph.D. Student Dairy herd structure simulation and optimization
Jan 10 – Dec 14	<b>Marion Dutreuil</b> Ph.D. Student Production, economic, and environmental impacts of feed supplementation on grazing and organic dairy farms
Sep 10 – Jun 13	<b>Claudia Hardie</b> M.S. Feed supplementation on organic dairy farms Current Position: Coursing a second M.S.
Jul 08 – Aug 10	<b>Mayuri Valvekar</b> M.S. Price risk analyses Current Position: Data analyst at Harker Research, a market research company in North Carolina
Oct 17	<b>Catherine Couture</b> Ph.D. intern from Canada Economics of dairy cattle reproduction management
Mar 17 – Present	<b>Ramon Mur</b> Ph.D. intern from Spain Economics of dairy cattle reproduction management
Mar – Aug 17	<b>Veronique Ouellet</b> Ph.D. intern from Canada Heat stress in dairy cattle
Jan – Jun 13	<b>Lenka Krpáľková</b> Ph.D. intern from Czech University of Life Sciences Statistical models of heifer raising production systems
Mar – Aug 11	<b>Mónica Piccardi</b> Ph.D. intern from National University of Cordoba, Argentina Dairy cattle reproductive efficiency
Nov – Dec 10	<b>Emiliano Demarchi</b> Intern from Regional Consortium of Agricultural Experimentation, Argentina Adjustment and translation of decision support tools for dairy farm management
Jan 11 – Dec 15	<b>Connie Cordoba</b> Outreach Specialist ReproMoney Extension program
Sep 11 – Jul 17	<b>Francisco Contreras-Govea</b> Outreach Specialist Feed Efficiency project

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**Mentoring Project Assistant Students (10; 4 since 2014)**

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Jan 2009 – Present	<b>MS and PhD students from UW-Madison Computer Science and Electrical and Computer Engineering</b> Development and maintenance of <a href="http://DairyMGT.info">http://DairyMGT.info</a> web-portal
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**Society Memberships (3)**

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2006 – Present	American Dairy Science Association
1999 – Present	The Fraternity of Alpha Zeta
1999 – Present	The Honor Society of Agriculture Gamma, Sigma, Delta

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**Service since 2014**

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Dairy Science Department	2016-present, Chair	Dairy Science International Committee
	2014	American Dairy Science and Midwest Young scholars' nomination
	2014	Chair's evaluation
	2013-2014, Chair	Search and Screening Committee Marshfield Dairy Management Specialist
	2014-present	Participated in 7 PhD Committees and 3 MS Committees
	2015-present	Akins Mentor Committee
	2017-present	Arriola Mentor Committee
	2014-2015	Fricke Post-Tenure Review
	2013-present	Dairy Science Graduate Curriculum Committee
	2014-2015	Ad-hoc Dairy Herd Data Management Committee
CALS	2017	Search and Screening Committee Associate Dean Outreach and Extension
	2016- present	Animal Care and Use Committee
	2013-2014, 2016	Research Advisory Committee
	2016- present	Animal Care and Use Committee

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UW-Madison	2010-2015	Wisconsin School for Beginning Dairy and Livestock Farmers Steering Committee
	2011-2017	Dairy Science Senator
Outside	2017-present	American Dairy Science Association Audit Committee
	2016	USDA-ARS Scientist Evaluation
	2016-present	American Dairy Science Association Production, Management, and Environment Committee
	2015	University of Minnesota Promotion and Tenure External Evaluator
	2015	McGill University External PhD Thesis Examiner
	2014-present	American Dairy Science Association Editorial Board Journal of Dairy Science
	2014-present	Virginia Tech Promotion and Tenure External Mentor
	2014	Judge at American Society of Agricultural and Biological Engineering for Outstanding Educational Publications
	2011-2014	American Dairy Science Association Awards Committee