Victor E. Cabrera, PhD

Professor and Extension Specialist in Dairy Management
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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, data-driven, user-friendly, and scientific decision support tools for dairy farm management. These scientific tools are improving dairy farm profitability, environmental stewardship, and long-term sustainability. Dr. Cabrera's research and extension programs have a global impact. Dr. Cabrera and his workgroup have developed 50 decision support tools, published 70+ refereed articles, and 10+ book chapters. Dr. Cabrera has presented in 100+ scientific sessions, and given extension talks in 400+ extension meetings in Wisconsin, other States, and around the world. Dr. Cabrera's work in the past 12 years has been pivotal to attract $5.0+ million to support his research and extension initiatives. Dr. Cabrera has been distinguished with the American Dairy Science Association DeLaval Dairy Extension Award, the University of Wisconsin-Madison Vilas Faculty Mid-Career Investigator Award, the Second Mile Extension award of the Wisconsin Association of County Agricultural Agents, the Pound Extension Award from the University of Wisconsin-Madison College of Agriculture and Life Sciences, the Distinguished Achievement Award from the University of Florida School of Natural Resources and Environment, the Foundation Scholar Award in Dairy Production from the American Dairy Science Association, and the Alfred Toepfer Faculty Fellow Award from the University of Wisconsin-Madison.

Professional experience

2018 - present	**Professor** Extension Specialist in Dairy Management Department of Dairy Science (Since July 2020: Department of Animal and Dairy Sciences) ***University of Wisconsin-Madison*** 30% Research, 70% Extension

2014 – 2018	**Associate Professor** Extension Specialist in Dairy Management Department of Dairy Science *University of Wisconsin-Madison* 30% Research, 70% Extension
2008 – 2014	**Assistant Professor** Extension Specialist in Dairy Management Department of Dairy Science *University of Wisconsin-Madison* 30% Research, 70% Extension
2006 – 2008	**Assistant Professor** Extension Specialist in Dairy Management Department of Extension Animal Sciences and Natural Resources *New Mexico State University* 25% Research, 75% Extension
1999 – 2001	**Extension Program Planner** Department of Rural Development *Inter-American Development Bank, Peru*
1994 – 1997	**Agricultural Educator and Extension Agent** Department of Higher Education *Valle Grande Rural Institute, Peru*

Academic Education

2004 – 2006	**Postdoctoral Research Associate** Farm risk decision-making *University of Miami*
2001 – 2004	**PhD** Ecology and Economics *University of Florida*
1997 – 1999	**MS** Farming Systems Research and Extension *University of Florida*
1995	**Diploma** Management of Agricultural Schools *Unión de Escuelas Familiares Agrarias, Madrid-Paris*
1993	**Engineer** Agricultural Production *La Molina Agrarian University, Perú*

1988 – 1991	**BS** Sciences – Agronomy *La Molina Agrarian University, Perú*

Honors and Awards

(N=14)

2019	**DeLaval Dairy Extension Award** American Dairy Science Association
2016	**Vilas Faculty Mid-Career Investigator Award** University of Wisconsin-Madison
2013	**Second Mile Award** Wisconsin Association of Agricultural Agents
2012	**Pound Extension Award** College of Agricultural and Life Sciences University of Wisconsin-Madison
2012	**Distinguished Achievement** School of Natural Resources and Environment University of Florida
2011	**Foundation Scholar Award in Dairy Production** American Dairy Science Association
2011	**Alfred Toepfer Faculty Fellow Award** University of Wisconsin-Madison
1998 – 1999, 2001 – 2004	**Outstanding International Student** University of Florida
2002	**Outstanding Contributions to Farming Systems in Nicaragua** Agricultural Development Foundation, Nicaragua
1999	**Honor and Membership** The Fraternity of Alfa Zeta
1999	**Achievement and Membership** The Honor Society of Agriculture Gamma, Sigma, Delta

Refereed Journal Articles

(N=73)

1. Skevas, T., I. Skevas, and **V. E. Cabrera.** 2020 (accepted 2 November 2020). Farm profitability as a driver of spatial spillovers: The case of somatic cell counts on Wisconsin dairies. Agricultural and Resource Economics Review 00:00-00.
2. Skevas, T., W. Thompson, S. Brown, and **V. E. Cabrera.** 2020 (*in press*). Milk income over feed cost margin, Margin Protection Program, and farm finances for a sample of Wisconsin dairies in 2000-2017. Applied Economic Perspectives and Policy 00:00-00.

DOI: 10.1002/aepp.13108.

3. Ouellet, V. P. Grenier, D. E. Santschi, **V. E. Cabrera**, L. Fadul-Pacheco, and E. Charbonneau. 2020 (*in press*). Projected economic losses from milk performance detriments under heat stress in Québec dairy herds. Canadian Journal of Animal Science 00:00-00. DOI: 10.1139/CJAS-2020-0069.
4. Skevas, T., and **V. E. Cabrera.** 2020. Measuring farmers' dynamic technical and udder health management inefficiency: the case of Wisconsin dairy farms. Journal of Dairy Science 103:12117-12127.
5. Bellingeri, A., A. Gallo, D. Liang, F. Masoero, and **V. E. Cabrera.** 2020. Development of a linear programming model for the optimal allocation of nutritional resources in a dairy herd. Journal of Dairy Science 103:10898-10916.
6. Ricci, A., M. Li, P. M. Fricke, and V. E. Cabrera. 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 103:5654–5661.
7. 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 47:1276-1301. DOI: 10.1093/erae/jbz046.
8. 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 103:3774-3785.
9. **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 103:3856–3866.
10. 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.
11. 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.
12. 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.
13. 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 Northern Italy. Italian Journal of Animal Science 18-786-798.
14. 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 64:107-117.
15. 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.

16. Mur-Novales, 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.
17. 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.
18. **Cabrera, V. E.** 2018. Helping dairy farmers to improve economic performance utilizing data-driving decision support tools. Animal 12(1):134-144.
19. Bach, A., and **V. E. Cabrera**. 2017. Robotic milking: feeding strategies and economic returns. Journal of Dairy Science 100:7720-7728.
20. 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.
21. López-Gatius, F., C. Andreu-Vázquez, R. Mur-Novalesd, **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.
22. Krpálková, 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.
23. Krpálková, 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.
24. 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.
25. 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.
26. **Cabrera, V. E.**, and A. S. Kalantari. 2016. Economics of production efficiency: Nutritional grouping. Journal of Dairy Science 99:825–841.
27. 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.
28. 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.
29. 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.

30. 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.
31. Kalantari, A. S., **V. E. Cabrera**. 2015. Stochastic economic evaluation of dairy farm reproductive performance. Canadian Journal of Animal Science 95:59-70.
32. 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.
33. 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.
34. 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.
35. Krpálková, 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.
36. 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.
37. 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.
38. **Cabrera, V. E.** 2014. Economics of fertility in high-yielding dairy cows on confined TMR systems. Animal 8:211-221.
39. Krpálková, 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.
40. Shahinfar, S, A. Kalantari, **V. E. Cabrera**, K. Weigel. 2014. Short communication: Prediction of retention pay-off using a Machine Learning algorithm. Journal of Dairy Science 97:2949-2952.
41. 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.

42. 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.
43. 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.
44. 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.
45. **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.
46. 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.
47. 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.
48. **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.
49. 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.
50. 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.
51. **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.
52. 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.
53. **Cabrera, V. E.**, D. Solis, and J. del Corral. 2010. Determinants of technical efficiency among dairy farms in Wisconsin. Journal of Dairy Science 93:387-393.
54. 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.

55. 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.
56. **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.
57. **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.
58. 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.
59. 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.
60. **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.
61. **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.
62. 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.
63. **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.
64. 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.
65. **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.
66. **Cabrera, V. E.**, D. Letson, and G. Podesta. 2007. The value of the climate information when Farm Programs matter. Agricultural Systems 93:25-42.
67. **Cabrera, V. E.**, A. de Vries., and P. E. Hildebrand. 2006. Manure nitrogen production in

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

68. **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.
69. **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.
70. **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.
71. 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.
72. **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.
73. **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.

Chapter Books

(N=10)

1. **Cabrera, V. E.** 2020. Data-driven decision support tools in dairy herd health. In: Improving dairy herd health. Prof. Emile Bouchard (Ed). Burleigh Dodds Science Publishing, ISBN-13: 978-1786764676.
2. 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.
3. 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.
4. 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.
5. Krpálková, L., **V. E. Cabrera**, J. Kvapilik, J. Burdych, M. Štipková, P. Crump, L. Stádnik,

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.

6. **Cabrera, V. E.** 2012. DairyMGT: A suite of decision support systems in dairy farm management. IN Decision Support Systems. Jao C. (Ed), INTECH, Rijeka, Croatia.
7. **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.
8. **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.
9. 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.
10. 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.

Computerized Decision Support Tools

(N=50)

1. **Cabrera, V. E.**, and R. Shaver. Quick assessment for diet formulation.
2. **Cabrera, V. E.** Bulk tank SCC and milk value.
3. **Cabrera, V. E.** Repro Money Extension program in Wisconsin 2010-2014.
4. Gaspar, N., and **V. E. Cabrera.** Economic evaluation of CholiPEARL use on preventing subclinical Ketosis.
5. **Cabrera, V. E.** Characteristics of organic, grazing, and conventional dairy farms in the state of Wisconsin.
6. **Cabrera, V. E.**, and K. A. Weigel. Integrated genomic testing for Jersey heifer calf decision support tool.
7. **Cabrera, V. E.**, and G. Lopes. Premium on beef dairy program.

8. Shahinfar, S., A. Kalantari, **V. E. Cabrera**, and K. A. Weigel. Retention Pay-Off (RPO) calculator.
9. **Cabrera, V. E.** Nutritional grouping in Wisconsin and Michigan dairy farms.
10. **Cabrera, V. E**. The economic value of a dairy cow.
11. **Cabrera, V. E.**, L. Armentano, and R. D. Shaver. FeedVal v6.0.
12. **Cabrera, V. E.**, and J. O. Giordano. UW-CornellDairyRepro$Plus: A reproductive analysis tool that includes heat detection devices.
13. **Cabrera, V. E.** Dairy reproductive economic analysis.
14. Gould, B. W. and **V. E. Cabrera**. Livestock Gross Margin-Dairy analyzer.
15. **Cabrera, V. E**. Grouping strategies for feeding lactating dairy cattle.
16. **Cabrera, V. E.** Exploring timing of pregnancy impact on income over feed cost.
17. **Cabrera, V. E.**, and A. S. Kalantari. Milk curve fitter.
18. **Cabrera, V. E.**, and P. Meyer. Projecting dairy herd size and make-up using the herd structure and simulation model.
19. **Cabrera, V. E.**, and K. Bolton. Working capital decision support system.
20. **Cabrera, V. E.**, and J. O. Giordano. UW-DairyRepro$: A reproductive economic analysis tool.
21. **Cabrera, V. E**. Dairy extension feed cost evaluator. Benchmarks feed costs and income over feed costs for participating herds.
22. **Cabrera, V. E.**, and B. W. Gould. Net guarantee income over feed cost.
23. **Cabrera, V. E.**, and J. Vanderlin. The Wisconsin dairy farm ratio-benchmarking tool.
24. **Cabrera, V. E.**, and J. Janowski. Decision support system program for dairy production and expansion.
25. **Cabrera, V. E**. Optigen evaluator.
26. **Cabrera, V. E.**, and B. W. Gould. Estimating your mailbox milk price.
27. **Cabrera, V. E**. Milk component price analysis.
28. **Cabrera, V. E**. Economic analysis of 3X milking.
29. Valvekar, M., **V. E. Cabrera**, M. Wattiaux, and B. W. Gould. Livestock Gross Margin-Dairy feed equivalent calculator.
30. **Cabrera, V. E**. Dairy ration feed additive break-even analysis.
31. **Cabrera, V. E.**, K. Bolton, and R. D. Shaver. Income over feed cost.
32. **Cabrera, V. E.**, K. Bolton, and P. Hoffman. Cost-benefit of accelerated feeding program for dairy heifers.
33. **Cabrera, V. E**. Livestock Gross Margin-Dairy optimum coverage.
34. **Cabrera, V. E**. Economic evaluation of using rbST.

35. **Cabrera, V. E.**, and B. W. Gould. Livestock Gross Margin-Dairy premium sensitivity.
36. **Cabrera, V. E**. Economic value of sexed semen programs.
37. **Cabrera, V. E**. Income over feed supplement cost.
38. **Cabrera, V. E**. Return to labor.
39. **Cabrera, V. E**. Heifer replacement.
40. **Cabrera, V. E**. Income over feed cost.
41. **Cabrera, V. E**. Heifer break-even.
42. **Cabrera, V. E.** Livestock Gross Margin-Dairy premium calculator.
43. **Cabrera, V. E**. Corn feeding strategies
44. **Cabrera, V. E**. Lactation benchmark curves.
45. **Cabrera, V. E**. Value of a springer.
46. **Cabrera, V. E**. Dairy farm nutrient manager.
47. **Cabrera, V. E**. Alfalfa yield predictor.
48. **Cabrera, V. E**. Grazing-N: application that balances nitrogen in grazing systems.
49. **Cabrera, V. E**. Seasonal prediction model of manure excretion.
50. **Cabrera, V. E**. DyNoFlo: Dynamic North Florida farm model.

Invited Research Presentations

(N=17)

1. **Cabrera, V. E.** 2021. Developing a Dairy Brain and the economic value of nutritional grouping. 56th Annual Meeting of the Brazilian Society of Animal Science + Formuleite – Brazil. Florianopolis, Brazil. August 2021. (Upcoming).
2. **Cabrera, V. E.**, and M. Ferris. 2021. Applications of integrated data on dairy farms. The Center for Digital Agriculture at Cornell University. January 2021.
3. **Cabrera, V. E.** 2020. Developing a Dairy Brain: The Next Big Leap in Dairy Farm Management Using Coordinated Data Ecosystems and Artificial Intelligence. American Society of Agronomy Annual Meeting. 8-11 November 2020.
4. **Cabrera, V. E.** 2020. Developing a Dairy Brain: The Next Big Leap in Dairy Farm Management Using Coordinated Data Ecosystems and Artificial Intelligence. International Milk Genomics Consortium. 2020 Symposium. 13-16 October 2020.
5. **Cabrera, V.E.** Developing a Dairy Brain: Improved Decision-Making from Continuous Integrated Data. Midwest section meeting of the American Society of Animal Science. 2-4 March 2020. Omaha, Nebraska.
6. **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.
7. **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.

8. 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.
9. Bach, A., and **V. E. Cabrera**. 2016. Nutritional approaches in robotic herds. Journal of Dairy Science 99 (Suppl. 1):35.
10. **Cabrera, V. E.** 2015. Economics of production efficiency: Nutritional grouping. Journal of Dairy Science 98 (Suppl. 2):350.
11. **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.
12. **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.
13. **Cabrera, V. E.** 2013. Grouping strategies to improve feed efficiency. 26th American Dairy Science Association Discover Conference: Dairy Feed Efficiency. Naperville, IL. 23-26 September 2013.
14. **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.
15. **Cabrera, V. E.** 2011. Economic comparison of reproductive management programs. 21st American Dairy Science Association Discover Conference: Improving Reproductive Efficiency of Lactating Dairy Cows. Itasca, IL. 11 May 2011.
16. **Cabrera, V. E.** 2011. The economic value of changes in 21-day pregnancy rate and what controls this value. 21st American Dairy Science Association Discover Conference: Improving Reproductive Efficiency of Lactating Dairy Cows. Itasca, IL. 10 May 2011.
17. **Cabrera, V. E.** 2011. Exploring methods to assess the economic value of dairy cattle reproductive programs. Midwest American Dairy Science Association Meeting. Des Moines, IA. 15 March 2011.
18. **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.

Papers and Abstracts at Scientific Meetings

(N=100)

1. Li, W., and **V. E. Cabrera**. 2020. Revealing the effects of reproduction and turnover rate on farm profitability through herd structure dynamics. Journal of Dairy Science 103:

(Suppl. 1): 306.

2. Li, M., **V. E. Cabrera**, and K. Reed. 2020. An application of the Ruminant Farm System Model (RuFaS): The use of a combination of sexed and beef semen on dairy herds. Journal of Dairy Science 103: (Suppl. 1): 309.
3. Li, M., **V. E. Cabrera**, and K. Reed. 2020. A time-series analysis of increasing milk productivity and yearly seasonality. Journal of Dairy Science 103: (Suppl. 1): T78.
4. Li, M, **V. E. Cabrera**, and K. Reed. 2019. Updating Holstein and Jersey lactation curve parameters for the Rumination Farm System Model (RuFaS). Journal of Dairy Science 102: (Suppl. 1): M128.
5. Li, W., and **V. E. Cabrera**. 2019. Interactions among pregnancy rate, turnover ratio, and herd structure. Journal of Dairy Science 102: (Suppl. 1): M131.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. Li, W., and **V. E. Cabrera**. 2019. Economics of using beef semen. Journal of Dairy Science 102: (Suppl. 1): 102.
12. 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.
13. 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.
14. 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.

15. 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, Lugo, Galicia, September 5, 2019.
16. 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.
17. 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.
18. 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.
19. Wangen, S. R., H. D. Rodriguez, D. Liang, A. Christensen, M. Ferris, and **V. E. Cabrera**. 2018. Development of an integrated dairy farm decision sup- port system to facilitate dairy management-I. Data integration and warehousing. Journal of Dairy Science 101: (Suppl. 2): 320.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. Wu, Y., **V. E. Cabrera**, R. D. Shaver. 2017. Maximizing income over feed cost by grouping cows with mixed-integer programing. Journal of Dairy Science 100 (Suppl. 2): 327.

26. Mur-Novales, R., I. Garcia-Ispierto, 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.
27. 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 minimize enteric methane emission considering farmer's risk preferences and reduce enteric methane production. Journal of Dairy Science 99 (Suppl. 1): 589.
28. 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.
29. **Cabrera, V. E.** 2015. Economics of production efficiency: Nutritional grouping. Journal of Dairy Science 98 (Suppl. 2): 350.
30. 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.
31. 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.
32. Weigel, K. A., A. A. Mikshowsky, and **V. E. Cabrera**. 2015. Western Dairy Management Conference. Reno, Nevada. 3-5 March 2015.
33. **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.
34. **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.
35. 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.
36. 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.
37. 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.

38. Liang, D., and **V. E. Cabrera**. 2014. Optimizing concurrently dairy farm productivity and environmental performance. Animal Science 92 (E-Suppl. 2):571.
39. 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.
40. **Cabrera, V. E.**, and M. Dutreuil. 2014. Implementation of greenhouse gas mitigation 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.
41. 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.
42. Kalantari, A., and **V. E. Cabrera.** 2013. Stochastic economic evaluation of dairy farms' reproductive performance. Journal of Animal Science 91 (E-Suppl. 2):791.
43. 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.
44. 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.
45. 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.
46. 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.
47. Souza, A. H., P. A. Carvalho, 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.
48. **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.
49. **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.

50. **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.
51. **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 fertility. Pp. 71-76 in Proceedings USDA Agriculture and Food Research Initiative Animal Reproduction Project Director Meeting. State College, PA. 16 August 2012.
52. 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.
53. 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.
54. 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.
55. 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.
56. 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.
57. **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.
58. 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.
59. 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.
60. 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.

61. 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.
62. **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 Initiative Joint Animal Systems Project Director Meeting. Washington D.C. 19-21 April 2011.
63. **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.
64. **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.
65. **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.
66. 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.
67. 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.
68. 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.
69. **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.
70. **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.

71. **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. AAEA, CAES, & WAEA Joint Annual Meeting. Milwaukee, WI. 26-28 July 2009.
72. 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.
73. 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.
74. 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.
75. 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.
76. **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.
77. **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.
78. **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.
79. **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.
80. **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.
81. 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.

82. **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.
83. 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 evidence. In Proceedings Cornell University's 3rd Annual Latin American Studies Program. Ithaca, NY. 24-25 February 2006.
84. **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.
85. **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.
86. **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.
87. Fraisse, 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.
88. Jones, J. W., C. Fraisse, 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.
89. **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.
90. 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.
91. **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.

92. **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.
93. 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 Impacts. Tallahassee, FL. 9-11 March 2004.
94. **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.
95. **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.
96. 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.
97. **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. Pascoly, Italy. 16-20 September 2002.
98. **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.
99. **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.
100. **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.

Invited Extension Conference Proceedings

(N=56)

1. **Cabrera, V.E.,** M. Ferris, H. White. 2020. The University of Wisconsin Dairy Brain: The

future of dairy management decisions based on big data analytics. Dairy Cattle Reproduction Council Annual Meeting, Virtual Meeting.

2. Li, W., and **V. E. Cabrera.** 2019. Beef x Dairy: Fad or sustainable future? Dairy Cattle Reproduction Council Annual Meeting, Pittsburg, Pennsylvania.
3. Li, W., and **V. E. Cabrera**. 2019. Economics of beef semen on dairy cattle. Western Dairy Management Conference, Reno, Nevada.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. **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.
11. 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.
12. **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 2017.
13. 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.
14. **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.

15. 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.
16. **Cabrera, V. E.** 2016. Helping dairy farmers to improve economic performance utilizing data-driven decision support system tools. 67th European Federation of Animal Science (EAAP). 29 August – September 2. Belfast, U.K.
17. **Cabrera, V. E.** 2016. Impact of nutritional grouping on the economics of dairy production efficiency. 67th European Federation of Animal Science (EAAP). 29 August – September 2. Belfast, U.K.
18. **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.
19. 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.
20. **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.
21. **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.
22. **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.
23. **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.
24. Lopes, G., and, **V. E. Cabrera**. 2014. Premium beef semen on dairy calculator. Journal of Animal Science 92 (E-Suppl. 2):288.
25. 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.*
26. 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.*

27. 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.
28. **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.
29. 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.
30. 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.
31. **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.
32. Dutreuil, M., Gildersleeve, R., and **V. E. Cabrera**. 2012. Dealing with high feed cost: Supplementation on pasture. In Proceedings *4th Annual World Dairy Expo Grazing Seminars*. Alliant Energy Center, Madison, WI. 5 October 2012
33. 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
34. 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.
35. 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.
36. 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.
37. **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.

38. 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.
39. 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.
40. **Cabrera, V. E.** 2011. Grouping strategies for feeding lactating dairy cattle. Pp. 17-33 in Proceedings 15th Annual UW-Arlington Dairy Day, Arlington, WI, 8 December 2011.
41. **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.
42. 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 14th Annual UW-Arlington Dairy Day, Arlington, WI, 8 December 2010.
43. **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.
44. 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.
45. 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.
46. **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.
47. **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.
48. **Cabrera, V. E.** 2009. When to use sexed semen on heifers. 14 pages in Proceedings 13th Annual UW-Arlington Dairy Day, Arlington, WI, 9 December 2009.
49. **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.

50. **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.
51. Janowski, J., **V. E. Cabrera**. 2009. A stochastic decision support system tool for dairy expansion. *Journal of Dairy Science* 92 (E-Suppl. 1):T236.
52. 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.
53. 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.
54. **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.
55. 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. **Cabrera, V. E.** 2008. Improving dairy farm sustainability through strategic alternatives to corn grain feeding. Pp. 4-11 in Proceedings 12th Annual UW-Arlington Dairy Day, Arlington, WI, 10 December 2008.
56. **Cabrera, V. E.**, and B. W. Gould. 2008. LGM-Dairy: Livestock gross margin for dairy. Pp. 33-38 in Proceedings 12th Annual UW-Arlington Dairy Day, Arlington, WI, 10 December 2008.

Other outreach publications

(N=62)

1. Hallbach, T., **V. E. Cabrera**, M. J. Fuenzalida, and L. Seefeldt. Records reveal heat stress losses. Herd management software like Dairy Comp 305 can be used to assess the potential impact of heat stress on your dairy. Hoard's Dairyman. 25 August 2020.
2. Gunderson, S., and **V. E. Cabrera**. 2020. Considerations in Reducing Milk Production: Switching Cows from 3X to 2X Milking. Dairy Extension Resources. UW-Division of Extension.
3. Fuenzalida, M. J., T. Kohlman, A. Olson, and **V. E. Cabrera.** 2020. Milk Reduction Strategies Through Early Dry Off. Dairy Extension Resources. UW-Division of Extension.
4. Reed, K., V. E. Cabrera, E. Kebreab, K. Panke-Buisse, G.Thoma, J. Tricarico, and P. Vadas. 2020. Next-generation whole-farm dairy sustainability analysis: The Ruminant Farm Systems Model. Progressive Dairy Magazine, 15 July 2020.
5. Dairy Brain Team. Creating value from data. Hoard's Dairyman. 10 May 2020.

6. Dairy Brain Team. Making data work on the farm. Hoard's Dairyman. 25 April 2020.
7. Dairy Brain Team. Data: Think big, but start small. Hoard's Dairyman. 10 April 2020.
8. Dairy Brain Team. Farming out data-driven decisions. Hoard's Dairyman. 25 March 2020.
9. Dairy Brain Team. Help us help you make better use of dairy data. Hoard's Dairyman. 10 February 2020.
10. **Cabrera, V. E.** 2019. Um cérebro virtual para gestão da informação recolhida nas explorações. Ruminantes, Abril-Maio-Junho 2019.
11. **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.
12. 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.
13. 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.
14. 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.
15. **Cabrera, V. E.**, and J. O. Giordano. 2017. Vyhodnocení ekonomicke hodnoty př i zme ne řepřodukc ní ho přogřamu konkře tní mle c ne fařmy. Schaumann-úspëch vestáji - Czech.
16. **Cabrera, V. E.** 2016. Evaluating the Economic Value of Changing the Reproductive Management Program for a Specific Dairy Farm. Engormix: 26 December 2016.
17. **Cabrera, V. E.** 2016. Using simulators to improve profitability on dairy farms. Engormix: 7 December 2016.
18. **Cabrera, V. E.** 2016. Dietary grouping strategies to improve profitability on dairy farms. Engormix: 7 October 2016.
19. **Cabrera, V. E.** 2012. University of Wisconsin Extension Dairy Management Web article. The dairy herd value according to reproductive performance
20. **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
21. **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
22. **Cabrera, V. E.** 2011. University of Wisconsin Extension Dairy Management Web article. Improving your dairy farm bottom line by using price risk management.
23. **Cabrera, V. E.** 2011. University of Wisconsin Extension Dairy Management Web article. Choose the best reproductive program for your dairy herd.

24. **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.
25. **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.
26. Breuer, N. E., **V. E. Cabrera**, P. E. Hildebrand, and J. W. Jones. 2010. University of 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.
27. **Cabrera, V. E.** 2010. University of Wisconsin Extension Dairy Management Web article. Exploring best replacement policies in dairy herds.
28. **Cabrera, V. E.** 2010. University of Wisconsin Extension Dairy Management Web article. Get the most from livestock gross margin for dairy insurance.
29. **Cabrera, V. E.** 2010. University of Wisconsin Extension Dairy Management Web article. Optigen® could be a viable substitute for high-priced Soybean.
30. Janowski, J., and **V. E. Cabrera**. 2010. University of Wisconsin Extension Dairy Management Web article. Differences between expanding and non-expanding Wisconsin dairy farms.
31. 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?
32. **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.
33. **Cabrera, V. E.** 2009. University of Wisconsin Extension Dairy Management Web article. Economic analysis of switching milking frequency.
34. **Cabrera, V. E.** 2009. University of Wisconsin Extension Dairy Management Web article. Economic value of sexed semen programs for dairy heifers.
35. **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).
36. **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.
37. 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.
38. **Cabrera, V. E.** 2008. University of Wisconsin Extension Dairy Management Web article. Optimal corn grain feeding in Wisconsin dairy diets.
39. Gould, B. W., P. Mitchell, and **V. E. Cabrera**. 2008. Marketing and Policy Briefing Paper 95, August 2008.

40. **Cabrera, V. E.** 2008. University of Wisconsin Extension Dairy Management Web article, August 2008. Optimal corn grain feeding in Wisconsin dairy diets.
41. **Cabrera, V. E.**, B. W. Gould, and M. Valvekar. 2008. LGM-Dairy: Dairy Management Brochure July 2008. Livestock gross margin for dairy cattle.
42. 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.
43. **Cabrera, V. E.**, C. P. Mathis, R. E. Kirksey, and T. T. Baker. 2007 NMSU Agricultural Experiment Station Bulletin 797. NM-Manure: A Seasonal Prediction Model for Manure Excretion by Dairy Cattle in New Mexico.
44. **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.
45. **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.
46. **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.
47. **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.
48. **Cabrera, V. E.**, and R. Hagevoort. 2007. NMSU Cooperative Extension Service Publication. Las Cruces, NM. Circular 613. Importance of the New Mexico dairy industry.
49. **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
50. 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.
51. **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.
52. **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.
53. 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.
54. 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.

55. 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.
56. **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. Gainesville, Florida. Modeling the effect of household composition on the welfare of limited-resource farmers in Cañete, Peru.
57. 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.
58. 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.
59. 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.
60. 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.
61. **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.
62. **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.

Grants: Funding Support Received for Research and Extension

(N=35)

1. **Cabrera, V. E.** 2021-2025. Developing the next-generation dairy farm decision support tools relying on the UW-Dairy Brain and the US Ruminant Farm System Model: A case study of genetic progress, semen selection, and culling policies. USDA Hatch Multistate Single Investigator. **$146,000**.
2. **Cabrera, V. E.** 2021-2022. Developing the next-generation dairy farm decision

support tools relying on the UW-Dairy Brain and the US Ruminant Farm System Model: A Case Study of Genetic Progress, Semen Selection, and Culling Policies. UW-Madison Fall Research Competition. **$42,000**

3. **Cabrera, V. E.** 2021-2025. Dairy data farm collection for the Ruminant Farm System Model. Gift General Mills Inc. **$100,000**
4. **Cabrera, V. E.**, and K. Nielsen. 2020-2023. UW-Madison-Nestle Dairy Farm Institute Collaborative Training Agreement. **$227,000.**
5. Fricke, P. M., **V. E. Cabrera.** 2021-2024. An Integrated Approach to Optimize Use of Sexed Semen in Dairy Herds. USDA-NIFA-CARE. **$300,000**
6. **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**.
7. **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**.
8. Combs, D., **V. E. Cabrera,** K. Nielsen. 2017-2019. UW-Madison-Nestle Dairy Farm Institute Collaborative Training Agreement. **$733,000.**
9. **Cabrera, V. E.** 2018. Dairy reproductive analysis. Gift Bovisync. **$40,000.**
10. **Cabrera, V. E.** 2017-2018. Continue delivering high-impact dairy farming decision support tools. University of Wisconsin-Madison Graduate School. **$51,500.**
11. 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**.
12. **Cabrera, V. E.** 2016-2018. Vilas Faculty Mid-Career Investigator Award. **$50,000**.
13. **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**.
14. 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**.
15. **Cabrera, V. E.**, and R. D. Shaver. 2015-2019. Nutritional grouping strategies for feeding dairy cattle to improve health, profit, and environmental outcomes of dairy farms. USDA Hatch Multistate Multiple Investigator. **$121,000**.
16. **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**.
17. **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**.

18. 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.**
19. 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.**
20. **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.**
21. **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.**
22. **Cabrera, V. E**. 2011-2013. Development of a suite of dairy reproduction decision support tools. USDA Hatch Multistate Single Investigator. **$83,000**.
23. 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.**
24. 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.**
25. Nienhuis, J. (PD), **V. E. Cabrera**, and international partners. 2011-2013. Seeds of Hope. US Agency for International Development. **$186,000.**
26. 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.**

27. 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.**
28. 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.**
29. 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.**
30. 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.**
31. 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.**
32. **Cabrera, V. E.** 2010-2011. Translation of Dairy Management Tools. The Babcock Institute for International Dairy Research and Development. **$10,000.**
33. **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.**
34. **Cabrera, V. E.** (PD), and J. Vanderlin. 2009-2010. Success for small beginning dairy farmers. USDA North Central Risk Management Education Center. **$39,000.**
35. **Cabrera, V. E.** 2008-2010. Development of a dairy economic decision support system for Wisconsin. USDA Hatch Single Investigator. **$54,000.**

Invited Extension Presentations

(N=398)

			International[1]	
Year	Total number of presentations	Total number of attendees	Number of presentations	Number of attendees

2020	20	14,281	5	10,955
2019	26	2,367	10	1,157
2018	22	2,425	17	1,790
2017	24	3,861	18	3,076
2016	20	1,725	15	1,595
2015	17	1,060	14	656
2014	23	2,124	22	2,108
2013	52	4,005	33	3,379
2012	44	1,323	15	449
2011	30	2,116	12	894
2010	52	1,816	14	462
2009	51	1,834	4	560
2008	17	434	1	3
Total	398	39,371	180	27,084

[1]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 (1), Hungary (1), Israel (1), Italy (4), Ireland (1), Mexico (8), 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

	Date	*Title, event, location*	*Attendance*
	2022	**Accepted Invitations (Upcoming)**	
1.	02/23	**Dairy farm reproductive efficiency.** Vermont Dairy Producers Conference. South Burlington	

	2021	**Accepted Invitations (Upcoming)**	
2.	06/06	**Controlling milk income over feed cost for enhanced profitability.** ANEMBE, Spain.	
3.	03/02	**Is it profitable to use exclusively sexed and beef semen on dairy cows?** UW-Madison Division of Extension Badger Dairy Insights	
4.	02/22	**Dairy farm economics.** Program of education of Maccarese, Italy.	
5.	01/20	**Managing metrics to increase dairy sustainability.** DBA Dairy Strong Conference-Sustainability and Stewardship.	
	2020	**(Virtual from April to December)**	
1.	12/22	**Data and technologies on dairy farms.** Pharm Robotics conversation.	F, I, C **200**
2.	9/30-12/5	**Decision analysis on dairy farms.** 4 1-hour conversations with China's Boehringer professionals. Virtual.	I **16**
3.	12/17	**Beef on Dairy.** Bovinews Webinar.	I, E, A **100**
4.	12/3	**The economic impact of reproductive efficiency. XXXIV Annual Meeting of the** Brazilian Society of Embryo Technology.	C, A, F, **500**
5.	12/3	**FeedVal: Economic evaluation of feeds for dairy cattle.** Global International Conference Smart Farming Chile.	I, E, A **350**
6.	12/1	**Somatic cell count and the value of the bulk tank milk.** Four-day seminar to industry people in China.	I **5**
7.	11/19	**Smart Dairy Farming: The vision of the University of Wisconsin Dairy Brain.** Smart Dairy Farming Meeting.	F, I, C **60**
8.	11/8	**The University of Wisconsin Dairy Brain: The future of dairy management decisions based on big data analytics.** Dairy Cattle Reproduction Council. Keynote Speaker.	F, A, E, I, **400**
9.	09/14	**The Dairy Brain project: From data to insights**. Tri-State Dairy Nutrition Virtual Conference.	A, C, I, F **400**
10.	08/12	**DairyMGT.info decision making tools.** UW-Ag Institute Monthly meeting.	E, A **30**
11.	08/07	**Tools for decision making on dairy farms.** Encuentro Anual de Medicina Veterinaria. Escuela de Medicina Veterinaria, Universidad Nacional Agraria de Costa Rica.	A, E, **100**
12.	07/17	**How to breed dairy cows for profitable breed.** Farm Journal Meeting.	F, A, I **200**

13.	05/26	**Dropping milking frequency from 3x to 2x.** Professional Dairy Producers of Wisconsin Dairy Signal Series.	F, E, I **250**
14.	05/06	**UW-Madison Dairy Management decision-making tools that could support effective strategies to reducing milk production.** Managing the surplus: Strategies for reducing milk production. UW-Madison Division of Extension. Dairy Program.	F, I, A **300**
15.	04/21	**Dairy farm decision support tools.** Dairy Farm Institute Webinar Series (3 talks). Harbin, China.	F, I, C, E, A **10,000**
16.	04/08	**Tools available for nutrition, dry cow, and culling strategies on dairy farms.** UW-Center for Integrated Agricultural Systems.	E, A **20**
17.	04/03	**Economics and sustainability of using beef semen on dairy farms.** UW-Madison Division of Extension. Dairy Program.	E, A **30**
18.	03/25	**Beef x Dairy decision making.** Livestock Program monthly meeting. UW-Madison Division.	
19.	03/05	**Economics and sustainability of beef semen use on dairy farms.** 2020 Dairy Producers Meeting – Shady Maple Banquet and Conference Center, East Earl, Pennsylvania.	F, C, I **1,300**
20.	02/13	**Dairy Brain kick off meeting.** The next big leap in dairy farm management using coordinated data ecosystems. De Pere, Brown Co., WI.	F, E, C, I **20**
	2019		
21.	12/17	**Decision making and data utilization on dairy farms.** Produktivität in Milchviehherden steigern. One-day seminar. Rotenburg, Germany.	F, C **120**
22.	12/14, 12/16	**Hands on dairy management decision support tools on dairy farms.** Two-day workshop. Agro-Prax, Ankum, Germany.	C **35**
23.	12/11-12/13	**Dairy management decision support tools.** Three-day workshop. Herdenmanagement GmbH, Hofheim, Germany.	C, A **30**
24.	12/10	**Decision support tools and data integration on dairy farms.** Geld verdienen gesunden kühen, Hofheim, Germany.	I, F, C **150**
25.	12/3	**Dairy management.** 434 Dairy Herd Management, Animal Science, Iowa State University. One-hour webinar.	A **45**
26.	11/21-11/23	**DairyMBA-economic decisions on dairy farms.** Three-day workshop. FarmIN, Tomar, Portugal	C, F **35**
27.	11/20	**Applications for dairy farm management.** Nova Agro Vouga Program, Aveiro, Portugal	F, I **250**
28.	11/14	**Beef x Dairy: Fad or sustainable future?** Dairy Cattle	I, A, E

		Reproduction Council Annual Meeting, Pittsburg, Pennsylvania.	**300**
29.	11/12	**Maximizing income over feed costs.** Increasing profitability series. Webinar Nebraska Extension Service.	F, E **30**
30.	11/6	**Data-driven decision-making on dairy farms.** 19 Congreso Internacional de Médicos Veterinarios Zootecnistas Especialistas en Bovinos, Torreón, Mexico.	I, E, A **150**
31.	8/5-8/9	**Economics and decision-making in dairy.** One-week Level 4 Curriculum Course, Dairy Farm Institute, Harbin, China.	A, C **35**
32.	6/17-6/21	**Herramientas para la toma de decisiones para manejo en tambos lecheros.** Madison, Wisconsin (attendees from Argentina)	A, E, I **24**
33.	5/20	**Developing a Dairy Brain.** Madison, Wisconsin. (attendees from Czech Republic)	A, E, I **8**
34.	5/11	**Desarrollando un cerebro lechero, integración de datos en tiempo real. Toma de decisiones óptimas.** Expo Leche GILSA, Aguas Calientes, Mexico.	F, E, I, A **120**
35.	3/27	**Developing a Dairy Brain.** Central Plains Dairy Expo, Sioux Falls, South Dakota.	I, E, A **40**
36.	3/16	**Economics of sexed, conventional, and beef semen according to market condition.** Allflex China conference: Monitoring the life cycle of the cow, ZhouZhuang, China.	I, F, G **150**
37.	3/15	**Developing a Dairy Brain: Real-time, data-integrated, data-driven, continuous modeling and decision-making engine.** Allflex China conference: Monitoring the life cycle of the cow, ZhouZhuang, China.	I, F, G **150**
38.	3/6	**Model based dairy management decision making tools.** Agri-King 2019 Progressive Dairy Forum, Del Curley Conference Center, Fulton, Illinois.	I, E **40**
39.	2/27	**Economics of beef semen on dairy cattle.** Western Dairy Management Conference, Reno, Nevada.	I, E, A **300**
40.	1/23	**Developing a Virtual Dairy Farm Brain.** Spring 2019 Seminars open to the Cornell Community. Ithaca, New York.	A **50**
41.	1/22	**Developing a Virtual Dairy Farm Brain.** 2019 Operations Managers Conference. Cornell Pro-DAIRY Program, Syracuse, New York.	F, I, E, A **80**
	2018		
42.	12/17-12/21	**Decision support tools in dairy farm management.** Hohhot, Inner Mongolia, China.	F, E, I **25**

43.	11/19	**Dairy farm management and decision support in dairy farms in Wisconsin.** Tunghai University, Taiwan.	A, E **100**
44.	11/12-11/16	**Dairy farm decision-making.** Level 3 Dairy Farm Institute. Harbin, China.	A, E, C **25**
45.	10/30	**Nutritional grouping in Quebec farms.** Symposium sur les bovins laitiers 2018. Drummondville, Canada.	A, E, C, I **400**
46.	10/30	**Nutritional grouping in Quebec farms.** Symposium sur les bovins laitiers 2018. Drummondville, Canada.	A, E, C, I **400**
47.	10/01	**Dairy farm decision making.** Word Dairy Expo seminar series. Chilean group. Madison, WI.	A, E, C, I **20**
48.	08/13	**Decision support tools for dairy farm management.** China Agricultural University, Beijing, China.	A, E **20**
49.	08/06-08/10	**Economics and decision-making in dairy.** Level 4 Dairy Farm Institute. Harbin, China.	A, C **25**
50.	07/10	**Is Premium Beef Program an Option for Your Dairy Farm?** Wisconsin Farm Technology Days. Wood County, WI.	F, E, C, I **20**
51.	07/04	**A Dairy Farm Brain.** International's Farm Systems Association. China, Greece.	A, E **50**
52.	06/08	**Prediction of mastitis onset.** ANEMBE, Vigo, Spain.	A, E, C, I **100**
53.	06/07	**A Dairy Farm Brain.** ANEMBE, Vigo, Spain.	A, E, C, I **200**
54.	06/06	**Dairy farm grouping strategies.** ANEMBE, Vigo, Spain.	A, E, C, I **100**
55.	06/05	**Field fertility in Holstein bulls: Can type of breeding strategy (artificial insemination following estrus versus timed artificial insemination) alter service sire fertility?** Sion-Israel, Tel Aviv, Israel.	A, E, G **25**
56.	06/04	**Helping dairy farmers to improve economic performance utilizing data-driving decision support tools.** Sion-Israel, Tel Aviv, Israel.	A, E, C **60**
57.	05/17	**The dairy farm industry in Wisconsin.** Massey University, Palmerston North, New Zealand.	A, E **40**
58.	04/10	**The economics of reproductive programs and fertility of cows in dairy herds.** II. Bölcsházy Day. Budapest, Hungary.	I, E **150**
59.	03/14	**Data up to your eye balls.** 2018 Professional Dairy Producers of Wisconsin Business Conference, Madison, WI.	F, E, C, I, A **100**
60.	03/01	**Economics of using Beef Semen on low genomic Holstein females.** Cros-Bred Program. Abbotsford, WI.	F, E, C, I **30**
61.	02/20	**Dairy farm management in Wisconsin.** Universidad de Caldas, Colombia.	A, E **50**

62.	02/06	**What are the economic advantages of grouping and feeding dairy cows by nutritional need?** Proceedings of 29th Annual Florida Ruminant Nutrition Symposium. Gainesville, FL.	A, E, C, I **400**
63.	01/09	**Premium beef programs: an option for your dairy farm? 2018 Cow College.** Fox Valley Technical College, Clintonville, WI.	E, C, F, I **100**
	2017		
64.	12/19	**Decision support tools for dairy farm decision-making.** ILVO-Flanders Research Institute. Ghent, Belgium	A, E **18**
65.	12/5	**Decision-making in dairy farm management.** Zhejiang Academy of Agricultural Sciences, Hangzhou, China	A, E **20**
66.	11/30	**Cost benefits of new technologies.** Phibro Technical Seminar. Puerto Vallarta, Mexico.	C, I, E **100**
67.	11/09	**Breeding decision dilemma: What type of semen should I use?** Dairy Cattle Reproduction Council Annual Convention. Reno, NV.	C, I, A **100**
68.	11/08	**Capitalizing on improved fertility: What are my options?** Dairy Cattle Reproduction Council Annual Convention. Reno, NV. Preconference semina	C, I, A **300**
69.	10/30-11/03	International Course Nestle Dairy Farming Institute – Level 3 – **Dairy farm economic decision making**. Harbin, China.	F, E, G **50**
70.	10/14	**Economics of dairy cattle improved fertility programs.** VI National and I International Congress of Turkish Society of Veterinary Gynecology. Marmaris, Turkey	C, I, F **300**
71.	09/21-09/22	Workshop: **Aspectos críticos para maximizar la rentabilidad de ganaderías lecheras**. General Pico, Argentina.	C **30**
72.	09/18	Workshop: **Aspectos críticos para maximizar la rentabilidad de ganaderías lecheras**. Villa Maria, Argentina.	A, I, C, F **70**
73.	09/13	**Strategic management options to maximize dairy farm profitability.** Strategic Account Management Program. Kusadasi, Turkey.	I, C, F **60**
74.	09/13	**Economic impacts of mastitis.** Strategic Account Management Program. Kusadasi, Turkey.	I, C, F **60**
75.	08/7-08/11	International Graduate Study Course Nestle Dairy Farming Institute – Level 4. **Advanced Dairy Herd Management**. Harbin, China.	A, C **18**
76.	08/01	**Herramientas de soporte para la toma de decisiones prácticas en el manejo de la ganadería lechera.** XL Reunión Científica Anual, Asociación Peruana de Producción Animal. Universidad Nacional Toribio Rodríguez de Mendoza, Chachapoyas, Peru.	A, C, I, F **400**
77.	07/18	**Nutritional considerations in robotic herds.** Dairy Robotics	F, C, I

		Workshop. University of Nebraska Extension. Plainview, NE.	**120**
78.	06/30	**Aspectos críticos para maximizar la rentabilidad de ganaderías lecheras.** Congreso CEBS, Tilajari San Carlos, Costa Rica.	C, I **500**
79.	06/14	**Feeding strategies and economic returns in robotic milking systems**. Four-State Dairy Nutrition and Management Conference. Dubuque, IA.	C, I, A, E **300**
80.	05/24	**Economics of nutritional grouping.** Lely North America FMS Conference. Fair Oaks Farms, IN.	C, I, E, A **300**
81.	04/10	**Critical aspects to improve dairy farm feed efficiency.** Parnell meeting. Kansas City, MO.	I **15**
82.	03/30	**Kde sú ešte možnosti redukcie nákladov na farmách dojníc?** AgroBiznis 2017. Nitra, Slovakia	C, I, F, E, A **300**
83.	03/28	**Ekonomická hodnota dojnice.** Meeting of the Holstein Association of Slovakia. Nitra, Slovakia	C, I, F, E **200**
84.	02/10	**Reproductive economic management: tools and concepts.** Cremona, Italy	C, I **100**
85.	02/09	**Il valore economico di una bovina da latte e le sue enormi implicazioni.** Cirio Agricola Dairy Meeting, Caserta, Italy.	C, I, F **250**
86.	02/08	**Gestione di opportunità strategiche per massimizzare il profitto di un allevamento da latte.** Cirio Agricola Dairy Meeting, Caserta, Italy.	C, I, F **300**
87.	02/08	**Strategie di alimentazione per ottimizzare efficienza alimentare e profittabilità.** Cirio Agricola Dairy Meeting, Caserta, Italy.	C, I, F **300**
	2016		
88.	11/18	**Research and extension at 2015/2016 sabbatical in Spain** – Webinar.	C, I, F **40**
89.	11/7-11/11	International Course Nestle Dairy Farming Institute – Level 3 – **Dairy farm economic decision making**. Harbin, China.	F, E, G **20**
90.	10/26	Workshop: **Decision support tools for evaluating economics of reproductive programs**. Wroclaw, Poland.	C, I **25**
91.	10/25	**Economics of fertility in high-yielding dairy cows**. Dairy reproductive conference. October 25-26, 2016. Wroclaw, Poland.	C, I **100**
92.	8/29-9/2	**Helping dairy farmers to improve economic performance utilizing data-driven decision support system tools**. 67th European Federation of Animal Science (EAAP). Belfast, U.K.	A, E, C **100**
93.	8/1-6	International Graduate Study Course Nestle Dairy Farming Institute – Level 4. **Advanced Dairy Herd Management**.	A, C **20**

		Harbin, China.	
94.	07/13	**Importance and use of data to evaluate reproduction economics. 2016 Parnell Forum** - The Power of Data. Napa Valley, California.	C, I, E **50**
95.	06/14-06/16	**The economic value of dairy cows**. SK Farms. Bratislava, Slovakia.	C, I **10**
96.	05/25-05/28	**Fertility associated economic losses of farms**. 4th Health Management & Symposium, Maritim Pine Beach Otel - Antalaya, Turkey.	C, I, A, G **400**
97.	05/20	**Economic value of dairy cows. Department of Cattle Breeding**. Institute of Animal Science, Prague, Czech Republic.	A, E, C, I **150**
98.	05/12	**Rangos de rentabilidad en explotaciones pequeñas y medianas de vacuno lechero en el noroeste de España durante el año 2015**. ANEMBE 2016, Santiago de Compostela, Spain. Spain.	F, C, I, A **50**
99.	05/11	**Interacción entre la gestión reproductiva y la eficiencia económica: Herramienta Wisconsin-Cornell Dairy Repro**. ANEMBE 2016 Seminario: Gestión de la reproducción en granja: Uso e interpretación de los datos reproductivos Santiago de Compostela, Spain.	F, C, I, A **70**
100.	04/27-04/28	**Mejora de la Rentabilidad lechera a través de la recría**. BLANCA from the Pyrenees, Spain.	C, I, F **40**
101.	04/18-04/20	**Impact of nutritional grouping on the economics of dairy production efficiency**. Tri-State Dairy Nutrition Conference. Grand Wayne Center, Fort Wayne, Indiana.	A, C, I, F **400**
102.	04/12-04/14	**GIORNATA BUIATRICA Ottimizzazione dei costi economici attraverso la buona gestione veterinaria: Dry cow period, Reproduction, Value of a cow**. Reggio Emilia, Italy.	C, I, F, A **120**
103.	04/04-04/06	**Efficiency improvement of dairy farms**. BLANCA from the Pyrenees, Spain. April 04-06, 2016.	C, I, F **50**
104.	02/16-02/17	**Economic efficiency of dairy farms**. BLANCA from the Pyrenees, Spain. February 16-17, 2016.	C, I, F **40**
	2015		
105.	11/30-12/04	International Course Nestle Dairy Farming Institute – Level 3 – **Dairy farm economic decision making**. Harbin, China.	F, E, G **20**
106.	11/16	**Critical aspects of profitability on dairy farms.** Universidad Autonoma de Barcelona.	E, A **25**
107.	11/13	**Tools for making economic reproductive decisions.** Dairy Cattle Reproduction Council Annual Convention. Buffalo,	F, C, A, E, I **150**

		NY.	
108.	10/30	**Critical aspects to maximize profitability in dairy farming.** Fiera Internazionale del Bovino da Latte. Cremona, Italy	F, C, G, I **100**
109.	10/21	**Wisconsin research advancement and vision for the future.** IRTA, Torre Marimon, Barcelona, Spain.	E, A **15**
110.	10/13-10/14	**Economic evaluation of reproductive programs.** Wisconsin Repro Workshop. Blanca from the Pyrenees. Lleida, Spain.	F, C, I **48**
111.	10/8	**The money you would gain by improving herd fertility.** CEVA Herd Health Symposium. Carts Resort, North Cyprus.	F, C, I **100**
112.	09/14-09/16	**Workshop of dairy farm management tools.** Río Cuarto, Argentina.	F, C, I, G, I **72**
113.	09/16	**Dairy farm management tools.** Consultant group. Río Cuarto, Argentina.	C, I **30**
114.	09/16	**Dairy farm management tools.** Teknal group. Río Cuarto, Argentina.	C, I **30**
115.	09/09	**Losses of milk production in gradual dry off.** CEVA - Blanca Workshop, Lleida, Spain.	F, C, I **48**
116.	7/27-7/31	International Graduate Study Course Nestle Dairy Farming Institute – Level 4. **Advanced Dairy Herd Management**. Harbin, China.	A, C **20**
117.	07/22	**Economic tools for dairy farm decision-making.** Dairy Japan Magazine group in Madison. University of Wisconsin-Madison	F, C, E, A **10**
118.	5/18	***The Wisconsin dairy farm industry.*** *University of Wisconsin Idea Seminar.*	A **40**
119.	05/08	**Decision support tool for genomic testing of calves**. Four-State Planning Meeting. Dubuque, IA.	E, A **20**
120.	05/07	**Dairy management tools.** Brazilian group in Madison. University of Wisconsin-Madison	F, C, E, A **40**
121.	04/16	**Estrous Detection, Timed-AI or a combination.** CEVA Training. Berlin, Germany. 15 April 2015.	C, I **50**
122.	04/15	**Economic value of improving reproductive performances.** CEVA Training. Berlin, Germany. 15 April 2015.	C, I **50**
123.	01/06-01/26	**Management tools to increase dairy cow feed efficiency.** Seven locations. Wisconsin Feed Efficiency Workshops 2015.	F, C, E **150**
124.	01/13-01/14	***Reproduction management and its economic value.** Wisconsin University & Blanca Workshop. Practical High-Level Dairy Management. Blanca from the Pyrenees, Lleida, Spain.	F, C, I **48**

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125.	11/19	***Strategies to improve economic efficiency.*** Shur-Gain Dairy Seminar. Stratford, Canada.	F, C, I **120**
126.	11/18	***Strategies to improve economic efficiency.*** Shur-Gain Dairy Seminar for Veterinarians. Stratford, Canada.	C, I **20**
127.	10/27	***Decision support tools for dairy farm management.*** COCHRAN group from Mexico, Guatemala, and Trinidad & Tobago. University of Wisconsin-Madison.	A, G **6**
128.	10/24	***Dairy farm decision-making using DairyMGT.info tools.*** Farm La Querencia, Lurín, Lima, Peru.	F, C **12**
129.	10/22	***Dairy farm production systems.*** 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 **200**
130.	10/21	***Selected group of decision support tools for dairy farm management.*** 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 **50**
131.	10/21	***Reproductive economic decisions.*** 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 **50**
132.	09/09-09-11	***Economic impacts of lameness.*** 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 **40**
133.	09/09-09/11	***Economic impacts of reproductive affections.*** 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 **40**
134.	09/09-09/11	***Economic impacts of mastitis.*** 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 **40**
135.	09/06	***Milk production sustainable systems.*** Kellogg Foro Latin America. Panama City, Panama. 4-7 September 2014.	A, G, E **50**
136.	06/26	**The application of simulators to improve profitability of dairy farms.** XIX International Congress of Bovine Medicine. Oviedo, Spain.	F, C, I **200**

137.	06/26	**Group feeding management in dairy farming.** XIX International Congress of Bovine Medicine. Oviedo, Spain.	F, C, I **200**
138.	06/12	***Group feeding.*** Improvement of the dairy farm enterprise. Continued Professional Development. Blanca from the Pyrenees. Lleida, Spain.	C, I **20**
139.	06/12	**Labor management and organization.** Improvement of the dairy farm enterprise. Continued Professional Development. Blanca from the Pyrenees. Lleida, Spain.	C, I **20**
140.	06/12	**The herd value and its management implications.** Improvement of the dairy farm enterprise. Continued Professional Development. Blanca from the Pyrenees. Lleida, Spain. 10-12 June 2014.	C, I **20**
141.	06/12	**The cow value and its management implications.** Improvement of the dairy farm enterprise. Continued Professional Development. Blanca from the Pyrenees. Lleida, Spain. 10-12 June 2014.	C, I **20**
142.	06/11	**Feed price management.** Improvement of the dairy farm enterprise. Continued Professional Development. Blanca from the Pyrenees. Lleida, Spain. 10-12 June 2014.	C, I **20**
143.	06/11	**Value of reproductive programs.** Improvement of the dairy farm enterprise. Continued Professional Development. Blanca from the Pyrenees. Lleida, Spain. 10-12 June 2014.	C, I **20**
144.	06/10	**The challenge of growing the dairy farm.** Improvement of the dairy farm enterprise. Continued Professional Development. Blanca from the Pyrenees. Lleida, Spain. 10-12 June 2014.	C, I **20**
145.	03/12	**Decision support tools for dairy farm management and decision-making with emphasis on reproduction and nutrition.** First workshop of Alta-Cialis Advantage Group. Junín, Santa Fe, San Francisco, Esperanza, Argentina. Four times.	F, C, I **40**
146.	03/12	**Strategies to improve economic efficiency of the dairy.** Western Dairy Canadian Dairy Seminar. Red Deer, Canada.	F, C, I **900**
147.	02/27	**Dairy management tools.** Central Wisconsin Dairy Series. Elroy, WI.	F, E **16**
	2013		
148.	8/16	**Heifer pregnancy rate.** UW-Extension, Agricultural and Natural Resources, Dairy Team monthly Wisline. Madison, WI.	E, A **13**
149.	8/13	**Results of organic dairy economic survey.** University of Wisconsin Organic Agriculture Field Day. Arlington, WI.	F, A, C **60**

150.	6/26	**Grouping strategies for feeding lactating dairy cattle.** Farm Business and Production Management instructors at the WAAE summer conference. Green Bay, WI.	A, C **18**
151.	6/21	**FeedVal 2012: Pricing dairy feed ingredients, an update.** UW-Extension, Agricultural and Natural Resources, Dairy Team monthly Wisline. Madison, WI.	E, A **12**
152.	1/2-3/14	**The economic value of a dairy cow, the value of a pregnancy, the cost of a pregnancy lost and their relationship with reproduction performance.** 2013 Repro Money Road Show Series: Reproducing Profitability, WI, 14 locations: Sauk, Columbia, Barron, Dunn/Chippewa, Polk, St. Croix, Trempealeau, Jackson, Fond du Lac, Sheboygan, Brown, Kewaunee, Iowa, Grant.	F, E, I **292**
153.	04/08	**Economic analysis tools for dairy reproduction programs.** DAIRxNET Webinar.	F, C, A, I **16 (+ online)**
154.	03/26	**Improving reproductive and economic performance using serum and milk based pregnancy test.** Cooperative Resources International Annual Meeting.	F, I, C **120**
155.	2/11	**New dairy software tools and they are free.** Hoard's Dairyman Webinar.	F, C, E, A, I **100 (+ online)**
156.	1/23	**FeedVal 2012: An online decision tool to interactively estimate market value of dairy feed ingredients.** 2013 Midwest Forage Association Symposium. Wisconsin Dells, WI.	F, C, E, A, G, I **40**
157.	10/3	**Dairy management decision support tools at DairyMGT.info.** Consultants from Israel. Attendees from Israel.	C **15**
158.	10/1	**Integrated dairy farm economic and environmental assessment of management strategies.** Milkpoint group from Brazil. Attendees from Brazil	C, A, F **20**
159.	9/27	**Dairy management decision support tools at DairyMGT.info.** CREA Argentina group meeting. Argentina.	C **20**
160.	9/11	**Decision making tools for dairy producers.** 13th INTERLEITE. International Symposium on Competitive Milk Production. Uberlândia, Minas Gerais State, Brazil.	F, C, E, A, G, I **850**
161.	9/10	**Determining the true value of dairy feeds.** 13th INTERLEITE. Advanced Course of Decision-Making Tools for Dairy Farms. Uberlândia, Minas Gerais, Brazil.	F, C, A, I **41**
162.	9/10	**Economic evaluation of reproductive programs for cows.** 13th INTERLEITE. Advanced Course of Decision-Making Tools for Dairy Farms. Uberlândia, Minas Gerais, Brazil.	F, C, A, I **41**
163.	9/10	**Nutritional grouping strategies for dairy lactating cows.** 13th	F, C, A, I

		INTERLEITE. Advanced Course of Decision-Making Tools for Dairy Farms. Uberlândia, Minas Gerais, Brazil.	**41**
164.	9/10	**True pregnancy rate of heifers and optimal raising patterns.** 13th INTERLEITE. Advanced Course of Decision-Making Tools for Dairy Farms. Uberlândia, Minas Gerais, Brazil.	F, C, A, I **41**
165.	9/10	**Economic value of a dairy cow and optimal replacement policies: Part 2.** 13th INTERLEITE. Advanced Course of Decision-Making Tools for Dairy Farms. Uberlândia, Minas Gerais, Brazil.	F, C, A, I **41**
166.	9/10	**Economic value of a dairy cow and optimal replacement policies: Part 1.** 13th INTERLEITE. Advanced Course of Decision-Making Tools for Dairy Farms. Uberlândia, Minas Gerais, Brazil.	F, C, A, I **41**
167.	7/23	**Economic impact of dairy cow management.** Czech Summer School. Jistebnice, Czech Republic.	I **40**
168.	7/22	**Economic models for dairy management evaluation.** Czech Summer School. Prague, Czech Republic.	A **15**
169.	7/18	**Mastitis economics and Web-based decision support tools.** Czech Summer School. Jihlava, Czech Republic.	F, I, C **200**
170.	7/17	**Principles of dairy herd management economic evaluation.** Czech Summer School. Brno, Czech Republic.	A **40**
171.	7/17	**Effect of mastitis on milk production and profitability.** Czech Summer School. Brno, Czech Republic.	A **40**
172.	7/05	**Strategies for nutritional grouping.** Congreso ESGAL 2013. Puerto Vallarta, Mexico.	C, I **70**
173.	7/05	**Economic impact of reproductive performance.** Congreso ESGAL 2013. Puerto Vallarta, Mexico.	C, I **70**
174.	6/11	**Tools for decision-making.** Babcock Institute SanCor (Argentina) Training Program. Madison, WI. Attendees from Argentina.	F, I **26**
175.	5/17	**The economic value of a dairy cow.** COPRINSEM Annual Meeting. San Fernando, Chile.	C, I, F **60**
176.	5/17	**Nutritional grouping strategies for lactating cows.** COPRINSEM Annual Meeting. San Fernando, Chile.	C, I, F **60**
177.	5/15	**Dairy management decision support tools available at the UW-Dairy Management website.** COPRINSEM Annual Meeting. Osorno, Chile.	C, I **15**
178.	5/14	**The economic value of a dairy cow.** COPRINSEM Annual Meeting. Osorno, Chile.	F, C, I **400**
179.	5/14	**Economic value of reproductive management programs in**	F, C, I

		dairy farming. COPRINSEM Annual Meeting. Osorno, Chile.	**400**
180.	5/14	**Nutritional grouping strategies for lactating cows.** COPRINSEM Annual Meeting. Osorno, Chile.	F, C, I **400**
181.	5/9	**The economic impact of clinical mastitis: Direct and indirect losses.** 2013 Mercolactea Seminar Series. San Francisco, Argentina.	F, G, I **90**
182.	5/7	**Economic analysis of culls and replacements: Part II.** 2013 Pre-Mercolactea Seminar Series. San Francisco, Argentina.	I, F, C, A, G **35**
183.	5/7	**Economic analysis of culls and replacements: Part I.** 2013 Pre-Mercolactea Seminar Series. San Francisco, Argentina.	I, F, C, A, G **35**
184.	5/6	**Economic effect of switching from 2 to 3 daily milkings.** 2013 Pre-Mercolactea Seminar Series. San Francisco, Argentina.	I, F, C, A, G **35**
185.	5/6	**The economic impact of clinical mastitis: Direct and indirect losses.** 2013 Pre-Mercolactea Seminar Series. San Francisco, Argentina.	I, F, C, A, G **35**
186.	4/24	**The need for collecting and using farm records.** La Molina Agrarian University and Association of Dairy Farm Small Producers San Felipe. Huacho, Peru.	F, A, C **120**
187.	4/17	**Economics of different breeding programs in dairy heifers.** CEVA Santé Animale. Barcelona, Spain.	C, A, I **32**
188.	2/20	**Dairy management decision support tools available at the UW-Dairy Management website.** Madison, WI. Attendees from Czech Republic.	A, I, C **8**
189.	2/6	**The UW-DairyRepro$Plus to value reproductive programs in Japan.** Veterinarian Services Webinar. Gunma, Japan.	C **2**
	2012		
190.	12/11-12/12	**Dairy management tools.** Center for Dairy Profitability/Wisconsin Farm Service Agency. AgFA/FSA Trainings, WI, 2 locations: Menomonie and Stevens Point.	C, G, N, L **40**
191.	11/16	**FeedVal 2012 discussion.** UW-Extension, Agricultural and Natural Resources, Wisline & Go-To-Webinar. Madison, WI.	E, A **20**
192.	11/1	**FeedVal 2012.** 2012 Quality Milk Council Farm Barn Meeting. Bruce and Brenda Long Farm, New London, WI.	F, C, I **16**
193.	9/25-9/26	**Move, Keep, or Cull Her: Tool for Culling Decisions.** PDPW Feed & Nutrition Conference: Decision, Alternatives, Strategies, WI. 2 Locations: Stevens Point and Madison.	F, C, I **82**
194.	8/21	**Reproductive decision-making tools.** Accelerated Genetics update for field representative personnel. Baraboo, WI.	I **8**

195.	8/14	**Feeding strategies for challenging times: FeedVal 2012 and valuation of drought stressed corn silage.** UW-Extension, WI. 2 locations: Millhome and Kaukauna.	C, F, E **40**
196.	6/15	**FeedVal 2012: A tool to estimate the real value of dairy feed ingredients.** UW-Extension, Agricultural and Natural Resources, Dairy Team monthly Wisline. Madison, WI.	E, A **25**
197.	4/24	**The economic value of a dairy cow.** Wisconsin Department of Agriculture Trade and Consumer Protection Monthly Dairy Meeting. Madison, WI.	G, A **22**
198.	2/15	**Economic grouping strategies for feeding lactating dairy cattle and tweaking your reproductive programs for improved profit.** Farm business and production management: Large dairy producer forum. Barron, WI.	F, A **14**
199.	1/17- 2/21	**The economic value of improving reproductive efficiency.** Repro Money Road Show, WI. 11 locations: Gillet, Shawano, Barron, Vernon, Portage, Footbridge, Seymour, Hixton, Stratford, Waldo, and Fond Du Lac.	F, E, I **238**
200.	10/31	**Dairy feed values, options and decision-making tools.** 26th Annual Tri-State Agricultural Lender's Seminar. Dubuque, IA.	L, N, C, F **140**
201.	6/13	**Grouping strategies for feeding lactating dairy cattle.** Four-State Dairy Nutrition and Management Conference. Dubuque, IA. 2 times.	C, A, I **130**
202.	5/4- 5/2	**Evaluation of using male and female sexed semen in dairy cattle.** CRI-Genex Cooperative, Inc. Meeting. TX. 2 locations: Stephenville, Muleshoe.	F, A, I **34**
203.	2/1	**The integrated farm system model.** Department of Agricultural and Biological Engineering. University of Florida. Gainesville, FL.	E, A **25**
204.	1/31	**Modeling dairy farm livelihoods.** Outstanding Alumni Award, School of Natural Resources and Environment, University of Florida. Gainesville, FL.	F, A, I **40**
205.	11/22	**Financial status of an enterprise.** Technological University of	F, A, G, I

		Costa Rica. San Carlos, Costa Rica.	**18**
206.	11/22	**Buy or sale an enterprise.** Technological University of Costa Rica. San Carlos, Costa Rica.	F, A, G, I **18**
207.	11/20	**Systems to help in the decisions of economic analysis on dairy cattle reproductive programs.** Veritas University, Veterinarian School. Costa Rica.	F, C, A, G, I **45**
208.	11/19	**Systems to help in the decisions of economic analysis on dairy cattle reproductive programs.** Costa Rica Agrarian National University, Veterinarian School. Heredia, Costa Rica.	F, C, A, G, I **43**
209.	11/19	**Wisconsin dairy farm management decision support tools.** Training meeting of Ciencias Pecuarias. San Jose, Costa Rica.	C, I **12**
210.	10/08	**Economics of reproductive programs.** Madison, WI. Attendees from Bulgaria.	F, C, A, G, I **10**
211.	10/03	**Economic value of a dairy cow, value of a pregnancy, and cost of a pregnancy loss.** Madison, WI. Attendees from Brazil.	F, C, A, I **30**
212.	8/23	**Economic value of a dairy cow.** Madison, WI. Attendees from Czech Republic.	A, C, I, F **8**
213.	8/17	**Cash flow for a farm business enterprise.** CRSP Hort USAID. Madison, WI. Attendees from Central America.	A, C **28**
214.	8/17	**Balance of income and expenses for a farm business enterprise.** CRSP Hort USAID. Madison, WI. Attendees from Central America.	A, C **28**
215.	7/5	**The UW-DairyRepro$Plus to analyze the use of heat detection devices.** Westfalia-GEA Webinar. Lima, Peru.	I **2**
216.	6/28	**Cow value, the value of a new pregnancy, and the cost of an abortion.** International Symposium: Advancements in Milk Production. Lima, Peru.	F, C, I, A **130**
217.	6/27	**Dairy management decision support systems to improve milk production.** La Molina Agrarian University meeting. Lima, Peru.	A, I, C **28**
218.	5/29	**Determining the cow value and perform replacement decisions.** University of Pristine. Department of Animal	A, I, C **45**

		Husbandry, Faculty of Agriculture. Pristine, Kosovo.	
219.	5/29	**Benchmarking dairy farms.** Kosovo Ministry of Agriculture meeting. Pristine, Kosovo.	G **4**
	2011		
220.	12/8	**Grouping strategies for feeding lactating dairy cattle.** UW-Arlington Dairy Day. Arlington, WI.	F, E, A, I **140**
221.	10/27	**Grouping strategies for feeding lactating dairy cattle.** UW-Extension Agriculture and Natural Resources. Wisconsin Dells, WI.	E, G, A **40**
222.	10/26	**Successful USDA NIFA AFRI Grants.** UW-Extension Agriculture and Natural Resources. Wisconsin Dells, WI.	E, G, A **30**
223.	8/19	**Grouping strategies for feeding lactating dairy cattle.** UW-Extension, Agricultural and Natural Resources, Dairy Team monthly Wisline. Madison, WI.	E, A **15**
224.	5/25	**Economics of reproduction on dairy cattle.** UW-Extension Eastern District Repro Money training. Cleveland, WI.	E, A **10**
225.	4/8	**Livestock Gross Margin for Dairy.** Grand Cheese company headquarters meeting. Madison, WI.	I **10**
226.	3/29	**Economics of reproduction in dairy cattle.** Complete feed service, new ideas in rations and management. Elkhorn, WI.	F, I **25**
227.	3/8	**Livestock Gross Margin for Dairy.** Prairie States Genetics meeting. Madison, WI.	F, I **10**
228.	2/14	**Livestock Gross Margin for Dairy.** Outlook Webinar Series. Madison, WI	E, A, F, N **150**
229.	1/28	**Livestock Gross Margin for Dairy.** Lakeshore Technical College Progressive Operators Dairy Nutrition. Cleveland, WI.	F, A, E, I **90**
230.	1/20	**Livestock Gross Margin for Dairy.** Outlook Webinar Series. Madison, WI	E, A, F, N **150**
231.	1/19	**Livestock Gross Margin for Dairy.** Clark County Webinar. Madison, WI	E, F **37**

232.	11/11	**Economics of resynchronization with chemical test to identify non-pregnant cows.** Dairy Cattle Reproduction Council Annual Meeting. Kansas City, MO.	A, F, C, I **60**
233.	9/1	**Livestock Gross Margin for Dairy.** Crop Insurance Industry Workshop Webinar. Bowie, MA.	N, L, A **30**
234.	7/12	**The need for applied research and decision support tools in dairy farm management and decision-making.** American Dairy Science Association Foundation Lecture. New Orleans, LA.	A, I, C **100**
235.	5/11	**The value of heat detection combined with synchronization reproductive programs.** American Dairy Science Association 21st Discover Conference. Itasca, IL.	A, I, C **150**
236.	5/10	**The economic value of improving the 21-day pregnancy rate in dairy cattle.** American Dairy Science Association 21st Discover Conference. Itasca, IL.	A, I, C **150**
237.	5/6	**Dairy reproductive economic analysis.** Four-State Dairy Nutrition and Management Conference Planning Meeting. Dubuque, IA.	A, E **25**
238.	11/25	**Economics of dairy reproduction.** USAID Farmer-to-Farmer program. Camoapa, Nicaragua	F, C, I **50**
239.	11/25	**Benchmarking income over feed cost in dairy farms.** USAID Farmer-to-Farmer program. Camoapa, Nicaragua	F, C, I **50**
240.	11/25	**The farm business plan.** Seeds of Hope meeting. Granada, Nicaragua.	A, C **20**
241.	11/18	**Economics of reproduction in Argentinian conditions.** DairyTech Annual Meeting. Rosario, Argentina.	F, C, I, A **100**
242.	11/18	**The value of improving the 21-day pregnancy rate in dairy cattle.** DairyTech Annual Meeting. Rosario, Argentina.	F, C, I, A **100**
243.	11/18	**Analysis of Argentina reproduction parameters.** DairyTech Annual Meeting. Rosario, Argentina.	F, C, I, A **100**
244.	10/24	**The UW-DairyRepro$ decision support system.** UW-Madison Babcock Institute USDA Cochran Program Meeting. Madison, WI. Attendees from Bosnia-Herzegovina.	G **6**

245.	8/22	**The UW-DairyRepro$ decision support system.** UW-Madison Babcock Institute Land O'Lakes Program Meeting. Madison, WI. Attendees from Philippines.	A, F, I **8**
246.	6/16	**Benchmarking and analyzing income over feed cost in dairy farm systems.** International Symposium: Advancements in Milk Production. Lima, Peru.	F, C, I, A **150**
247.	6/16	**Economics of reproductive programs in dairy farming.** International Symposium: Advancements in Milk Production. Lima, Peru.	F, C, I, A **150**
248.	6/14	**Economics of reproductive programs in dairy farming.** Andes University Symposium. Huancayo, Peru.	F, C, I, A **60**
249.	5/12	**Price risk management and least cost contracts with Livestock Gross Margin for Dairy.** AgroMoney Symposium. Mexico City, Mexico.	G, F, C **100**

2010

250.	12/14	**Livestock Gross Margin for Dairy.** Outlook Webinar Series. Madison, WI	E, A, F, N **100**
251.	12/8	**Economics of reproductive programs in dairy cattle.** UW-Arlington Dairy Day. Arlington, WI.	F, E, A, I **25**
252.	12/2	**Livestock Gross Margin for Dairy.** Southwest Technical College meeting. Dodgeville, WI.	F, L **15**
253.	11/17	**Economics of reproductive programs in dairy cattle.** Eastern District meeting. Green Bay, WI.	E **8**
254.	11/17	**UW-DairyRepro$: A tool to assess the economic value of reproductive performance.** Dairy optimist group. Sauk City, WI.	F, C **14**
255.	11/16	**Livestock Gross Margin for Dairy.** Outlook Webinar Series. Madison, WI	E, A, F, N **50**
256.	10/26	**Livestock Gross Margin for Dairy.** Outlook Webinar Series. Madison, WI	E, A, F, N **25**
257.	10/20	**The Wisconsin Dairy Ratio Benchmark tool.** All UW-Extension Annual meeting. Madison, WI.	E, A **22**

258.	9/23	**UW-DairyRepro$: A tool to assess the economic value of reproductive performance.** Alta Genetics Dairy Manager School. Watertown, WI.	F **10**
259.	9/21	**Organic and grazing farmers survey training.** Training to DATCP, WASS enumerators. Richland, WI.	G **16**
260.	9/21	**Livestock Gross Margin for Dairy.** Outlook Webinar Series. Madison, WI	E, A, F, N **25**
261.	9/20	**Organic and grazing farmers survey training.** Training to DATCP, WASS enumerators. Richland, WI.	G **15**
262.	9/16	**The Wisconsin Dairy Ratio Benchmark, the Expansion, and LGM-Dairy tools.** Fox Valley and Lakeshore financial annual meeting. Manitowoc, WI.	L **20**
263.	9/14	**UW-DairyRepro$: A tool to assess the economic value of reproductive performance.** CRI-Genex National Meeting. Shawano, WI.	C **15**
264.	8/24	**Livestock Gross Margin for Dairy.** Outlook Webinar Series. Madison, WI	E, A, F, N **15**
265.	8/11	**The Wisconsin Dairy Management Tools.** Center for Dairy Profitability Bootcamp. Wisconsin Dells, WI.	E, G, A **30**
266.	8/11	**The Wisconsin Dairy Ratio Benchmark tool.** Center for Dairy Profitability Bootcamp. Wisconsin Dells, WI.	E, G, A **30**
267.	7/27	**Livestock Gross Margin for Dairy.** Outlook Webinar Series Madison, WI	E, A, F, N **10**
268.	6/16	**Livestock Gross Margin for Dairy least cost contracts.** Fox Valley Technical College meeting. Clintonville, WI.	E, A, F, N **30**
269.	4/30	**Livestock Gross Margin for Dairy least cost contracts.** Lenders farm management meeting. Kimberly, WI.	L, F, E **50**
270.	3/17	**The Wisconsin Dairy Ratio Benchmark tool.** North Central Risk Management and Education Center, Annie's Project. Tomah, WI.	F **8**
271.	3/17	**Decision Support System for Dairy Expansion and Modernization.** North Central Risk Management and Education Center, Annie's Project. Tomah, WI.	F **8**

272.	3/11	**UW-DairyRepro$: A tool to assess the economic value of reproductive performance.** Johnson Creek peer group meeting. Lake Mills, WI.	F **15**
273.	3/5	**The Wisconsin Dairy Ratio Benchmark tool.** North Central Risk Management and Education Center, Heart of the Farm. Neenah, WI.	F **13**
274.	2/19	**Grazing feed supplementation.** Grazing Conference. Wisconsin Rapids, WI.	F **40**
275.	2/11	**Wisconsin Dairy Management decision support systems.** Dairy Optimists meeting. Prairie Du Sac, WI.	F, C **12**
276.	1/12	**Economics of using sexed semen.** Cow College 2010. Clintonville, WI.	F, C, I **35**
277.	1/8	**Successful AFRI NIFA proposals.** UW-Extension Agriculture and Natural Resource meeting. Madison, WI.	A, E **50**
278.	11/12	**Reproduction economics in dairy cattle.** Dairy Cattle Reproduction Council Annual Meeting. St. Paul, MN.	A, F, C, I **300**
279.	11/9	**The dairy feed cost evaluator database tool.** Tri-State Ag Lenders meeting. Dubuque, IA.	L, C, F **100**
280.	11/9	**Livestock Gross Margin for Dairy.** Tri-State Ag Lenders meeting. Dubuque, IA.	L, C, F **100**
281.	6/10	**The dairy feed cost evaluator database tool.** Four-State Dairy Nutrition and Management Conference. Dubuque, IA. 2 times.	C, A, I **50**
282.	4/27	**Livestock Gross Margin for Dairy least cost tool.** Pennsylvania State University Webinar. Harrisburg, PA.	A, E, F **20**
283.	2/5	**Optimizing income over supplement cost.** Ohio Dairy Health and Management Certificate Program: Module 5 Dairy Cattle Economics. Columbus, OH.	C **17**
284.	2/5	**Value of sexed semen.** Ohio Dairy Health and Management Certificate Program: Module 5 Dairy Cattle Economics. Columbus, OH.	C **17**
285.	2/5	**Economic analysis of switching milking frequency.** Ohio Dairy Health and Management Certificate Program: Module	C **17**

		5 Dairy Cattle Economics. Columbus, OH.	
286.	2/2	**Dairy management tools.** South East Climate Consortium meeting. Gainesville, FL.	A, E **27**
287.	12/1	**Development of farm decision support tools.** Seeds of Hope meeting. San Pedro de Sula, Honduras.	A, C **25**
288.	11/8	**UW-DairyRepro$ decision support system.** UW-Madison Babcock Institute Program Meeting. Madison, WI. Attendees from Philippines.	A, F, C, I **10**
289.	10/5	**Dairy farming in Wisconsin.** UW-Madison Babcock Institute Cochran Program Meeting. Madison, WI. Attendees from Venezuela.	A, F, C, I **14**
290.	10/5	**UW-DairyRepro$ decision support system.** UW-Madison Babcock Institute Program Meeting. Madison, WI. Attendees from South and Central America.	A, F, C, I **60**
291.	10/5	**UW-DairyRepro$ decision support system.** UW-Madison Babcock Institute Program Meeting. Madison, WI. Attendees from Iran, China, and Russia.	A, F, C, I **20**
292.	5/13	**The economics of using sexed semen in dairy farming.** Mercolactea Seminar Series. San Francisco, Argentina.	F, I, C **70**
293.	5/13	**Dairy management and decision-making decision support tools.** Mercolactea Seminar Series. San Francisco, Argentina.	F, I, C **60**
294.	5/12	**The economics of using sexed semen in dairy farming.** APROCAL-Babcock workshop. San Francisco, Argentina.	C, I **30**
295.	5/12	**Replacement decisions in dairy farming.** APROCAL-Babcock workshop. San Francisco, Argentina.	C, I **30**
296.	5/12	**The income over feed cost, income over feed supplement cost and benchmarking analyses.** APROCAL-Babcock workshop. San Francisco, Argentina.	C, I **30**
297.	5/12	**The decision of switching between 2 and 3 milking times in a day.** APROCAL-Babcock workshop. San Francisco, Argentina.	C, I **30**
298.	5/12	**Dairy management decision support systems.** APROCAL-Babcock workshop. San Francisco, Argentina.	C, I **30**

299.	4/5	**Dairy management webpage.** COOPRINSEM meeting. Osorno, Chile	I, C **25**
300.	3/23	**Strategies for supplementation in grazing dairy farms.** International meeting of milk production systems. Tepatitlan, Mexico.	A, C, F **28**

2009

301.	12/4	**Wisconsin Dairy Management decision support systems.** Dairy meeting. Waldo, WI.	F, I **20**
302.	8/20	**Livestock Gross Margin for Dairy.** UW-Extension, Agricultural and Natural Resources, Dairy Team monthly Wisline. Madison, WI.	E, A **30**
303.	7/2	**Income over feed cost and feed cost evaluator tools.** Wisconsin vocational teachers annual meeting. Middleton, WI.	A **25**
304.	6/16	**Economics of reproductive programs.** Larson Acres producer meeting. Evansville, WI.	F, I **60**
305.	6/5	**Livestock Gross Margin for Dairy.** Badgerland Financial workshop. Fond Du Lac, WI.	N, F **22**
306.	4/27	**Five Decision Support tools for dairy decision making.** Flying farmers of Wisconsin. Madison, WI.	F **25**
307.	3/16	**Livestock Gross Margin for Dairy full day workshop.** North Central Risk Management and Education Center project. Taylor, WI.	F, N, L **8**
308.	3/15	**Five Decision Support tools for dairy decision making.** Center for Dairy Profitability bootcamp. Marshfield, WI.	E, G, F **20**
309.	3/13	**Livestock Gross Margin for Dairy full day workshop.** North Central Risk Management and Education Center project. Brillion, WI.	F, N, L **7**
310.	3/11	**Livestock Gross Margin for Dairy full day workshop.** North Central Risk Management and Education Center project. Green Bay, WI.	F, N, L **13**
311.	3/6	**Livestock Gross Margin for Dairy full day workshop.** North	F, N, L

		Central Risk Management and Education Center project. Madison, WI.	**13**
312.	3/6	**Price risk management.** North Central Risk Management and Education Center, Heart of the Farm. Oshkosh, WI.	F **9**
313.	3/3	**Price risk management.** Wisconsin Farm Bureau Federation meeting. Madison, WI.	G **21**
314.	3/3	**USDA Agriculture and Food Research Initiative Integrated Programs.** UW-Extension Agriculture and Natural Resources meeting. Madison, WI.	E, A **45**
315.	2/20	**The income over feed supplement cost tool.** UW-Extension, Agricultural and Natural Resources, Dairy Team monthly Wisline. Madison, WI.	E, A **15**
316.	2/11	**Livestock Gross Margin for Dairy full day workshop.** North Central Risk Management and Education Center project. Platteville, WI.	F, N, L **5**
317.	2/3	**Dairy price risk management with Livestock Gross Margin for Dairy.** Milk quality conference. Madison, WI.	I **150**
318.	1/19	**The income over feed supplement cost tool.** VitaPlus meeting. Madison, WI.	I **9**
319.	1/6- 1/16	**Price risk management in dairy farming by using the Livestock Gross Margin for Dairy insurance.** UW-Extension Road Show, WI. 13 locations: Suring, Casco, Stratford, Plover, Eau Claire, Rice Lake, Amery, Spring Valley, Antigo, Owen, Gilman, Melrose, Spring Green.	F, E, I, L **235**
320.	1/5	**The income over feed supplement cost and LGM-Dairy tools.** Cow College. Waupaka, WI.	E, F **42**
321.	11/20- 11/13	**The value of sexed semen reproductive programs.** Dairy Cattle Reproduction Council Annual Meeting. 2 locations: Boise, ID; St. Paul, MN.	A, F, E, C, I **250**
322.	6/26	**Livestock Gross Margin for Dairy.** Washington State webinar. Seattle, WA.	L, E, A **50**
323.	6/11	**Income over feed supplement cost decision support tool.** Four-State Dairy Nutrition and Management Conference.	C, A, I **70**

		Dubuque, IA. 2 times.	
324.	5/27	**Livestock Gross Margin for Dairy.** Greenstone Farm Credit meeting. Lansing, MI.	N, E, F **60**
325.	3/8	**Price risk management using Livestock Gross Margin for Dairy.** Dairy Policy Conference. Rochester, MN.	A, G, I **70**
326.	11/4	**The value of sexed semen programs.** Ferraroni S.P.A. Dairy Farm School webinar. Sardine, Italy.	F, C, I **40**
327.	11/4	**The cost-benefit of accelerated feeding programs.** Ferraroni S.P.A. Dairy Farm School webinar. Sardine, Italy.	F, C, I **40**
328.	6/26-6/22	**The value of sexed semen reproductive programs.** 2nd Regional Encounter of ALPURA. Mexico. 5 locations: Chihuahua, Torreon, Mexico City, Queretaro, Leon.	F, C, I **240**
329.	6/22-6/26	**Optimizing the income over feed supplement cost.** 2nd Regional Encounter of ALPURA. Mexico. 5 locations: Chihuahua, Torreon, Mexico City, Queretaro, Leon.	F, C, I **240**
	2008	15 presentations 425 attendees	
330.	12/19	**Livestock Gross Margin for Dairy.** UW-Extension, Agricultural and Natural Resources, Dairy Team monthly Wisline. Madison, WI.	E, F **15**
331.	12/12	**Feed efficiency in dairy cattle.** Dairy Herd Management and Health Clinic, WI. 2 locations: Bargo and Arcadia.	F, E, I **42**
332.	12/11	**Livestock Gross Margin for Dairy.** Clark County meeting. Loyal, WI.	F, E, I **30**
333.	12/10	**Livestock Gross Margin for Dairy.** UW-Arlington Dairy Day. Arlington, WI.	F, E, A, I **25**
334.	12/10	**Feed efficiency in dairy cattle.** UW-Arlington Dairy Day. Arlington, WI.	F, E, A, I **120**
335.	12/2	**Livestock Gross Margin for Dairy.** AgriServe meeting. Madison, WI.	N **17**
336.	11/20	**Livestock Gross Margin for Dairy.** Progressive Dairy Producers of Wisconsin, Production Management	F **23**

		Symposium. Appleton, WI.	
337.	10/16	**Corn substitution in dairy cattle diets.** UW-Extension Agriculture and Natural Resources. Wisconsin Dells, WI.	E, A **10**
338.	9/19	**Livestock Gross Margin for Dairy.** UW-Extension, Agricultural and Natural Resources, Dairy Team monthly Wisline. Madison, WI.	E, A **15**
339.	9/12	**Livestock Gross Margin for Dairy.** Farm Management Update Seminar. Kimberly, WI.	L **50**
340.	8/28	**Corn substitution in dairy cattle diets.** UW-Extension Agricultural Prices Special Conference. Wisconsin Dells, WI.	E, A **40**
341.	6/25	**Financial decision-making.** Farm Management Meeting. Valders, WI.	L **14**
342.	6/20	**Corn substitution in dairy cattle diets.** UW-Extension, Agricultural and Natural Resources, Dairy Team monthly Wisline. Madison, WI.	E, A **20**
343.	6/13	**Livestock Gross Margin for Dairy.** Eastern District Meeting. Appleton, WI.	E, A **4**
344.	6/13	**Profit Opportunity Analyzer.** Four-State Dairy Nutrition and Management Post - Conference. Dubuque, IA.	C, A, I **6**
345.	8/8	**Dairy management.** UW-Madison Babcock Institute Program Meeting. Madison, WI. Attendees from Philippines.	A **3**

Language skills

1. Spanish, fluent, native
2. English, fluent

Mentoring Postdocs and Students Completing Graduate Degrees, Major Professor

(N=19)

Jan 21 - Present	**Tadeu da Silva** Postdoctoral Research Associate Data science and animal welfare
Jul 20 - Present	**Fan Zhang** Postdoctoral Research Associate Data science analytics and artificial intelligence

Oct 18 - Present	**Liliana Fadul** Postdoctoral Research Associate Data science analytics and artificial intelligence
Sep 18 – Aug 20	**Wen Li** MS Student Strategies of semen utilization on reproductive programs
Feb 18 – Oct 18	**Paulo Carvalho** Postdoctoral Research Associate Dairy Data Records at Bovisync
May 18 – Nov 18	**Andrea Bellingeri** PhD intern from Italy Diet formulation and cropping plans in dairy farms
Sep 17 – Apr 19	**Hector Delgado** Postdoctoral Research Associate Database management and artificial intelligence
Sep 17 – Sep 19	**Di Liang** Postdoctoral Research Associate Database management and artificial intelligence
Jan – May 12	**Julio O. Giordano** Postdoctoral Research Associate Economics of dairy reproductive programs Co-mentored Dr. P. M. Fricke
Jan 17 – Present	**Manfei Li** PhD Student Integrated Farm System Model
Jun 17 – Aug 19	**Jorge Barrientos** MS Student Nutritional grouping
Sep 15 – Aug 17	**Yaqi Wu** MS Student Nutritional grouping
Sep 13 – Aug 17	**Di Liang** PhD Student Integrated dairy farm system modeling
Jan 11 – May 15	**Afshin S. Kalantari** PhD Student Dairy herd structure simulation and optimization

Jan 10 – Dec 14	**Marion Dutreuil** PhD Student Production, economic, and environmental impacts of feed supplementation on grazing and organic dairy farms
Sep 10 – Jun 13	**Claudia Hardie** MS Feed supplementation on organic dairy farms
Jul 08 – Aug 10	**Mayuri Valvekar** MS Price risk analyses
Jan 11 – Dec 15	**Connie Cordoba, MS** Outreach Specialist ReproMoney Extension program Co-mentored Dr. P. M. Fricke and P. L. Ruegg
Sep 11 – Jul 17	**Francisco Contreras-Govea, PhD** Outreach Specialist Feed efficiency in dairy cattle Co-mentored Dr. L. Armentano

International Sabbatical and Visiting Scholars

(N=9)

Sep 17 – Jul 18	**Edith Charbonneau** Sabbatical researcher Professor, University Laval, Quebec, Canada
Jan 18	**Carlos Gomez** Sabbatical researcher Professor, Universidad Nacional Agraria La Molina, Perú
Mar – Aug 17	**Huichao Zheng** Sabbatical researcher Vice-Professor, Zhejiang Academy of Agricultural Sciences, Hangzhou, China
Oct – Nov 17	**Catherine Couture** PhD intern from Laval University, Quebec, Canada Economics of dairy cattle reproduction management
Mar – Nov 17	**Ramon Mur-Novales** PhD intern from Spain Economics of dairy cattle reproduction management
Mar – Aug 17	**Veronique Ouellet** PhD intern from Laval University, Quebec, Canada Heat stress in dairy cattle

Jan – Jun 13	**Lenka Krpálková** PhD intern from Czech University of Life Sciences, Czech Republic Statistical models of heifer raising production systems
Mar – Aug 11	**Mónica Piccardi** PhD intern from National University of Cordoba, Argentina Dairy cattle reproductive efficiency
Nov – Dec 10	**Emiliano Demarchi** Intern from Regional Consortium of Agricultural Experimentation, Argentina Adjustment and translation of decision support tools for dairy farm management

Committee Member at UW-Madison and External Examiner

(N=31)

2018 – Present	**Allison Quick** PhD
2019 – 2022	**Almudena Molinero** PhD (Universidad Complutense de Madrid, Spain)
2019 – 2020	**Martin Correa** PhD (Massey University, New Zealand)
2020	**Andrea Bellingeri** PhD (Università Cattolica del Sacro Cuore, Italy)
2018 – 2020	**Megan Lauber** MS
2017 – 2020	**Pablo Silva** PhD
2017 – 2019	**Tiago Passafaro** PhD
2017 – 2018	**Paulina Letelier** MS
2017	**Georgina Maynou** PhD (Universitat Autònoma de Barcelona/ Institute of Agrifood Research and Technology – Spain)
2017	**Frederik Leen** PhD (Instituut voor Landbouw-, Visserij,- en Voedingsonderzoek, Ghent, Belgium)
2017	**Baban Bayan** PhD (Indian Institute of Technology Guwahati, Assam – India)
2016 – 2020	**Ligia Moreira** PhD

2016	**Arnau Àlvarez** PhD (Universitat Autònoma de Barcelona/ Institute of Agrifood Research and Technology – Spain)
2015 – 2018	**Lingqiao Qi** PhD (University of Connecticut)
2015 – 2016	**Tom Murphy** PhD
2015	**Héctor Delgado** PhD (McGill University, Montreal – Canada)
2014 – 2016	**John Penry** PhD
2014 – 2015	**Robb Bender** PhD
2014	**Lauryn Vandewerff** MS
2014	**KC Chirigo** MS (University of KwaZulu-Natal – South Africa)
2013 – 2015	**David Cook** PhD
2012 – 2015	**Robert Rowbothan** PhD
2012 – 2015	**Saleh Shahinfar** PhD
2013 – 2014	**Courtney Heuer** MS
2012 – 2013	**Meghan Bergman** MS
2010 – 2011	**Annette Zwald** MS
2010 – 2011	**Fernanda Lopes** MS
2009 – 2012	**Julio Giordano** PhD
2009 – 2010	**Carolina Pinzón-Sánchez** MS
2009 – 2010	**Francisco Inostroza** MS
2009 – 2010	**Jennifer Blazek** MS

Mentoring Project Assistant Students

(N=14)

Jan 2009 – Present	**MS and PhD students from UW-Madison Computer Science and Electrical and Computer Engineering** Development and maintenance of http://DairyMGT.info web-portal

Society Memberships

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

Service – Major Committee Assignments

2020 – Present	UW-Madison, CALS **Faculty Affiliate for the Center for Dairy Profitability**
2019 – Present	UW-Madison, CALS **Dairy Innovation Hub Steering Committee**
2019 – Present	UW-Madison, Data Science Hub **Data Science Hub Steering Committee**
2018 – Present	UW-Madison, CALS **Farm and Industry Short Course Advisory Committee**
2019	UW-Madison, CALS-Division of Extension **Program Review Nutrient Pest Management Program**
2018 – 2019	UW-Madison, CALS **Ten-Year Program Review for Center for Dairy Research**
2016 – 2019	UW-Madison, CALS **Animal Care and Use Committee**
2018	UW-Madison, WARF **Data Science Initiative Proposals Reviewer**
2018	UW-Madison, WARF **UW2020 WARF Initiative Proposals Reviewer**
2017	UW-Madison, CALS **Search Committee Associate Dean for Extension and Outreach**
2011 – 2017	UW-Madison **Dairy Science Department Senator**
2013 – 2014, 2016	UW-Madison, CALS **Research Advisory Committee**
2010 – 2015	UW-Madison, CALS **Wisconsin School for Beginning Dairy and Livestock Farmers Steering Committee**

2020 – Present	UW-Madison, Animal and Dairy Sciences Department **Mentor Committee Francisco Peñagaricano (Chair)**
2020 – Present	UW-Madison, Animal and Dairy Sciences Department **Mentor Committee Jimena Laporta**
2020	UW-Madison, Animal and Dairy Sciences Department **John Parrish Post-Tenure Review**
2019 – Present	UW-Madison, Animal and Dairy Sciences Department **Diversity Representative**
2019 – Present	UW-Madison, Animal and Dairy Sciences Department **Climate and Diversity Committee**
2019 – Present	UW-Madison, Animal and Dairy Sciences Department **Faculty and Staff Professional Development Committee**
2019 – Present	UW-Madison, Animal and Dairy Sciences Department **Mentor Committee Joao Dorea (Chair)**
2017 – Present	UW-Madison, Animal and Dairy Sciences Department **Mentor Committee Sebastian Arriola**
2015 – Present	UW-Madison, Animal and Dairy Sciences Department **Mentor Committee Matt Akins**
2016 – 2019	UW-Madison, Dairy Science Department **International Committee (Chair)**
2018 – 2019	UW-Madison, Dairy Science Department **Extension Committee**
2018 – 2019	UW-Madison, Dairy Science Department **Search Committee Precision Management and Data Analytics (Chair)**
2013 – 2019	UW-Madison, Dairy Science Department **Graduate Curriculum Committee**
2014, 2017	UW-Madison, Dairy Science Department **Chair Evaluation**
2015	UW-Madison, Dairy Science Department **Fricke Post-Tenure Review**
2013 – 2014	UW-Madison, Dairy Science Department **Search Committee Marshfield Dairy Management Specialist (Chair)**
2012	UW-Extension Ag and Natural Resources and Environment Annual Meeting **Planning Committee**
2010	UW-Madison, Animal and Dairy Science Department **Animal and Dairy Science Information Technology Committee**

Professional Service

2020 – Present	Frontiers in Animal Sciences Journal **Review Editor on the Editorial Board of Precision Livestock Farming**
2019 – Present	Journal Animals from Multidisciplinary Digital Publishing Institute **Editorial Board Member**
2017 – Present	Ruminant Farm Systems Model national inititative **Executive Committee Member**
2015 – Present	Asociación Nacional de Especialistas en Medicina Veterinaria, ANEMBE, Spain **Scientific Advisory Committee Member**
2020	Agriculture for the Canada Foundation for Innovation's 2020 Fund competition **Panel Expert Committee**
2020	American Dairy Science Association Annual Meeting Awards Program **DeLaval Dairy Extension Award Committee**
2019	Wageningen University, Business Economics Group, The Netherlands **Post-Tenure Faculty Evaluation**
2019	National Science Foundation, Cyber Physical Systems for Agriculture Funding Program **Review Panelist**
2014 – 2019	Journal of Dairy Science **Editorial Board Member**
2017 – 2019	American Dairy Science Association **Audit Committee**
2014 – 2019	Virginia Tech, Department of Dairy Science **External Young Mentor for Tenure and Promotion**
2018	National Science Foundation, Cyber Physical Systems for Agriculture Funding Program **Review Panelist**
2016 – 2018	American Dairy Science Association Annual Meeting Production, Management, and Environment section **Program Committee Member (Chair 2018)**
2017	Asociación Nacional de Especialistas en Medicina Veterinaria, ANEMBE, Spain **Annual Meeting Abstracts Review Committee**
2016	USDA Agricultural Research Service **Research position evaluation, in-depth review for scientist at the Dairy Forage Center**
2015	University of Minnesota, Department of Animal Science **External Evaluation Promotion and Tenure Packet**

2014	American Society of Ag and Biological Engineers **Extension Committee for Comprehensive Publications**
2012 – 2014	American Dairy Science Association Annual Meeting **Extension and Education Committee**
2011 – 2014	American Dairy Science Association **Awards Committee**
2012	American Dairy Science Association Annual Meeting Awards Program **Foundation Scholar Award Committee**
2012	USDA-NIFA, Animal Production and Protection, Small Business Innovation Research Program **Review Panelist**

	Other Proposals Reviews
2020	The Dutch Research Council Vidi Programme, The Netherlands
2019	Fonds de recherche du Québec, Québec Nature and Technologies, Canada
2018	Animal Health, School of Veterinary Medicine, UW-Madison
2018	Agencia Nacional de Investigación e Innovación de Uruguay, Fondo Sectorial INNOVAGRO
2017	Dairy Farmers of Canada, Dairy Research Cluster Grants
2015	Civilian Research and Development Foundation, Global Center for Food Systems Innovation Grants
2013	University of Guelph and the Ontario Ministry of Agriculture, Food and Rural Affairs Agreement, Production Systems Animals Research Program, Canada
2012	University of Wisconsin Consortium for Extension and Research in Agriculture and Natural Resources
2010	USDA-NIFA, Animal Production and Protection, Small Business Innovation Research Program

	Contribution to development work in marginal production systems
2015	Ethiopia, Bahir Dar. Improvement of dairy cattle performance: Enhancing the livelihood of resource poor farmers in Amhara Regional State, Ethiopia
2014	Honduras. Business diagnostic tour of Honduras dairy industry.
2013	Peru, Huacho. Development of a record keeping system for a milk production cooperative.
2010	Mexico, Guadalajara. Sustainability of small dairy farm systems in North America.