

## **Doolarie Singh-Knights, Ph.D.**

Associate Professor and Extension Specialist  
Agribusiness Economics and Management  
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### **Professional Goal:**

To contribute to the development of sustainable agricultural production systems through research, teaching and extension education. This goal is based on the premise that the viability of the agricultural sector of a nation and the survival and growth of its farming population depends greatly on proper design and implementation of relevant research and the timely dissemination of research findings to the farming community and students in the agricultural sciences.

## **Education**

<b>Degree</b>	<b>University</b>	<b>Date</b>
Doctor of Philosophy Degree (Natural Resource Economics)	West Virginia University, Morgantown, West Virginia, USA.	2000-2003
Master of Science Degree (Production Economics).	West Virginia University, Morgantown, West Virginia, USA.	1998-2001
Bachelor of Science (Management Studies).	University of the West Indies, St. Augustine, Trinidad and Tobago	1995-1997
Advanced Diploma in Business Administration	Association of Business Executives, Wimbledon, London, (Distance-Education at the School of Accounting & Management, St. Augustine, Trinidad).	1995-1997
Diploma - Agriculture (Hons.).	Eastern Caribbean Institute of Agriculture and Forestry, ECIAF, Trinidad & Tobago, West Indies.	1987-1989

## Professional Experience

Post	Institution	Dates
Associate Professor	West Virginia University Extension Service AND Division of Resource Management, Davis College of Agriculture, Natural Resources and Design	July 2017 - Present
Assistant Professor	West Virginia University Extension Service AND Division of Resource Management, Davis College of Agriculture, Natural Resources and Design	Aug. 2010 – June 2017
Lecturer	University of the West Indies, Faculty of Science & Agriculture, Department of Agricultural Economics and Extension	Nov. 2006 - July 2010
Assistant Professor	West Virginia University, Division of Resource Management, College of Agriculture, Forestry and Consumer Sciences	Aug. 2004 - Oct. 2006
Assistant Professor	Potomac State College of West Virginia University, Department of Agriculture (Academic Advisor - Division of Agriculture)	Aug. 2003 - May 2004
Graduate Research Assistant (Ph.D.)	West Virginia University, Division of Resource Management	Sept. 2000 - Aug. 2003
Graduate Research Assistant (MSc.)	West Virginia University, Division of Resource Management	Sept. 1998 - Aug. 2000
Lecturer	School of Accounting and Management, St. Augustine, Trinidad, West Indies	Sept. 1997 - Aug. 1998
Extension Agent	4-H and Young Farmers Youth Program, Ministry of Agriculture, Trinidad, West Indies	Oct. 1989 - Aug. 1998

## Teaching Experience

### Face-To-Face Classes Currently Teaching

- Agribusiness Records and Analysis (ARE 493T), West Virginia University, Fall 2014 to Present.
- Agribusiness Accounting (ARE 110), West Virginia University, Spring 05 to Present.
- Marketing Agricultural Products (ARE 435), West Virginia University, Spring 2006 to Present.

### Face-To-Face Classes Previously Taught

- Agribusiness Management (ARE 204), West Virginia University, Fall 2016
- Project Appraisal and Implementation (AGBU 3006), University of the West Indies, Fall 2007 to Fall 2010.

- Farm Business Management (AGBU 3000), University of the West Indies, Spring 2007 to Spring 2010.
- International Trade Policy and Regulations (AGBU 3009), University of the West Indies, Spring 2007 to Spring 2010.
- Ecotourism – Product Design and Management (AGBU 3003), University of the West Indies, Spring 2007 to Spring 2010.
- Advanced Microeconomics (AGBU 6501), University of the West Indies, Fall 2007 to Spring 2010.
- Quantitative Methods II (Econometrics) (AGBU 6602), University of the West Indies, Spring 2007 to Spring 2010.
- Principles of Microeconomics, University of the West Indies, Fall 2006.
- Intermediate Microeconomics (ARE 401), West Virginia University, Fall 2006.
- Rural Entrepreneurship (ARE 421), West Virginia University, Fall 2005 to Fall 2006.
- Entrepreneurship and Rural Business Development (Web-Based Course) (ARE 493C), West Virginia University, Fall 2005 to 2006.
- Agribusiness Management (ARE 204), Potomac State College of West Virginia University, Spring 2002 to 2004.

### **Distance Classes Currently Teaching**

- Marketing Livestock Products (ARE 435), West Virginia University, Summer 2014 to Present.
- Agribusiness Accounting (ARE 110), West Virginia University, Spring 05 to Present.

### **Distance Classes Previously Taught**

- AGBU 3000 (Farm Business Management), Spring, 2008

## **List of Publications, Proceedings, Abstracts, Presentations and Reports**

### **Refereed Publications:**

Knights, M., A. Redhead, and **D. Singh-Knights** (2018). The Relationship between Anti-Mullerian Hormone (AMH) and Fertility and Profitability in Ewes (In Progress).

-Carr, S., **D. Singh-Knights**, and Knights, M. (2018). Effect of Nutritional and Progesterone Supplementation on Fertility and Profitability of Ewe Lambs Systems (In Progress).

Nabers, A., **Singh-Knights, D.** and Knights, M. (2018). Effect of Varying Concentrations of Progesterone Pre-treatment on Fertility in Ewes (In Progress).

Knights, M., and **Singh-Knights, D.** (2016). Use of Controlled Internal Drug Releasing (CIDR) Devices to Control Reproduction in Goats: A Review: Animal Science Journal. **87**:1084-1089

Rastle-Simpson, S.L., D'Souza, K.N.D., **Singh-Knights, D.**, Baptiste, Q., and **Knights, M. (2016)**. Effect of system of lamb rearing and season on early postpartum fertility of ewes and growth performance of lambs in Katahdin sheep. Journal of Animal Physiology and Animal Nutrition: Version of Record online: 23 JUL 2016, DOI: 10.1111/jpn.12551

**Singh-Knights, D.**, Daisy Bailey and C. Martel (2015). Linking Agriculture, Tourism, Economics and Education through Cluster Development in Rural Communities. Invited Workshop Presentation in *the Proceedings of the 2015 National Extension Tourism Conference*, Galveston, Texas. October 27-29, 2015. <http://extensiontourism.net/conference/>

**Singh-Knights, D** (2015). Business Planning and Risk Mitigation in Agritourism – Tools for Stimulating Micro-Cluster Development. Research Poster in *Proceedings of the 20th International Farm Management Congress*, Quebec, Canada, July 12-17, 2015. <https://www.ifma20.org/documents/files/IFMA20%20Program%20at%20a%20glance.pdf>

Knights, M., Lambie, N., Ramgattie, R., **Singh-Knights, D.**, and Siew, N (2014). Evaluation of Timed Artificial Insemination Protocols in Water Buffaloes in the Tropics. In *Proceedings of the Caribbean Food Crops Society*. 49:322-331. [http://cfcs.eea.uprm.edu/sites/default/files/CFCS%202013%20Vol.%2049%20rs\\_1.pdf](http://cfcs.eea.uprm.edu/sites/default/files/CFCS%202013%20Vol.%2049%20rs_1.pdf)

**Singh-Knights, D.** and M. Knights (2014). “Flock-Management Calendars for Spring- and Fall Lambing in West Virginia.” West Virginia Agricultural and Forestry Experiment Station Publication; Davis College of Agriculture, Natural Resources and Design; West Virginia University, Morgantown, WV. October 2005.

Knights, M., Inskeep, K., D’Souza, K., **Singh-Knights, D.**, and Baptiste, Q. (2013). Accomplishment Report in *Proceedings of the 2013 NCERA-214 Coordinating Committee: Increased Efficiency of Sheep Production*. June 10-12, 2013, Utah State University, Logan. UT. <http://nimss.umd.edu/homepages/saes.cfm?trackID=11156#3>.

Dickson N., Siew N., **Singh-Knights D.**, Bourne G. and Knights M (2012). Technical and Economic Outcome using Various Timed Artificial Insemination Protocols in Dairy Cattle in the Tropics. *J Anim Prod Adv* 2012, 2(11): 490-499.

Knights, M., N. Siew, R. Ramgattie, **D. Singh-Knights**, and G. Bourne (2012) - Effect of Time of Weaning on the Reproductive Performance of Barbados Blackbelly Ewes and Lamb Growth Reared in the Tropics. *Small Ruminant Research* 103 (2012), pp. 205-210.

Knights, M., R. Ramgattie, N. Siew, **D. Singh-Knights**, and G. Bourne (2011) - Effectiveness of a Short-term Treatment with Progesterone Injections on Synchrony of Lambing and Fertility in Tropical Hair Sheep. *Animal Reproductive Science* (2011), doi:10.1016/j.anireprosci.2011.04.019.

Joseph, Jeanelle., **D. Singh-Knights** and D. Smith (2009) – “Sustainability in the Tourism Sector: Assessing Ecotourists Willingness to Pay for Ecotourism Offerings in Trinidad and Tobago”. *Proceedings of the 28th West Indies Agricultural Economics Conference, Port-of-Spain Trinidad, 6-10 July 2009*, pp. 46

Patterson, A., **D. Singh-Knights**, and M. Knights (2009) - “Retail Margins, Price Transmission and Price Asymmetry in Selected Agricultural Commodities in Trinidad and Tobago: Investigating the Causes of Increasing Food Prices”. *Proceedings of the 28th West Indies Agricultural Economics Conference, Port-of-Spain Trinidad, 6-10 July 2009*, pp. 57

**Singh-Knights, D.**, M. Knights, A. Joesph and S. Benjamin (2009) – “Assessing Agriculture Practices in the Livestock Industry: A Base for Establishing Internationally Accepted Good Agricultural Practices in Livestock Industry in Antigua and Barbuda”. *Proceedings of the 28th West Indies Agricultural Economics Conference, Port-of-Spain Trinidad, 6-10 July 2009*, pp. 66

**Singh-Knights, Doolarie**, A. Patterson, D. Palmer and S. Hutchinson. (2008) “The Impact of Increasing Food Prices on Food Security in the Republic of Trinidad and Tobago – Forecasting Food Production and Prices and Estimating Marketing Margins.” *Proceedings of the 16th CAS Biennial Conference on Science*

*and Technology: Vehicles for Sustainable Economic Development in the Caribbean*, Grande Anse, Grenada, 11-13 October 2008; pp.308-312.

**Singh-Knights, Doolarie** and D. Palmer.(2008) “Forecasting Sugarcane Production in Jamaica Using a Vector Autoregression Framework.” *Proceedings of the 16th CAS Biennial Conference on Science and Technology: Vehicles for Sustainable Economic Development in the Caribbean*, Grande Anse, Grenada, 11-13 October 2008; pp.313-315.

**Singh-Knights, Doolarie**, J. Joseph; and D. Smith.(2008) “Assessing the Current Status and Future Potential of Ecotourism in Trinidad and Tobago.” *Proceedings of the 16th CAS Biennial Conference on Science and Technology: Vehicles for Sustainable Economic Development in the Caribbean*, Grande Anse, Grenada, 11-13 October 2008; pp.303-307.

**Singh-Knights D**, Lewis P E., Knights M. and Smith D. (2005) “Analysis of Decision-Making Factors for Sheep Producers in West Virginia: Implications for the U.S. Sheep Industry.” *Agricultural and Resource Economics Review Journal*. Vol. 29 (2): 251

**Singh-Knights, Doolarie** and M. Knights (2005). “Feasibility of Goat Production in West Virginia – A Handbook for Beginners.” . West Virginia Agricultural and Forestry Experiment Station. Davis College of Agriculture, Forestry, and Consumer Sciences, West Virginia University, Morgantown, WV. October 2005.

**Singh-Knights, Doolarie**, D. Smith and M. Knights (2005). “Developing Needed Price Premiums for Selecting Optimal Marketing Strategies for Sheep Producers in West Virginia.” *Agricultural and Resource Economics Review*. Vol. 34 (2): 286

Knights, M., **Singh-Knights, D.**, Bourne, G.A., Inskeep, E.K., Lewis, P.E. (2004) Use of the ram effect to induce out of season breeding. *7<sup>th</sup> World Sheep and Wool Congress*, 7: 355-377

**Singh-Knights D.**, Smith D. and Knights M (2004). Forecasting models developed from West Virginia lamb sale transactions provide evidence of seasonality of slaughter and feeder lamb prices and a shifting market preference. *J. Anim. Sci.* Vol. 82: 114.

**Singh-Knights D.**, Smith D. and Knights M (2003). Market Price, Cost of Production, Lambing Patterns and Marketing Options in the West Virginia Sheep Industry. *J. Anim. Sci.* Vol. 81: 107.

**Singh, D.**, Knights, M. and Smith, D., (2002). An Analysis of Lamb Price Differences for West Virginia Producers. Joint Annual Meeting of the ADSA/ASAS Quebec City, Canada, July, 21-25, 2002. *J. Anim. Sci.* (80): 29

## **National Conferences and Webinar Presentations:**

**Singh-Knights, D.** (2018). Whole Farm Risk Assessment and Action Planning for the Agritourism Operator Tools for Building an Effective Risk Management Action Plan. *Invited Workshop Presentation in Proceedings of the 33<sup>rd</sup> Annual NAFDMA-Farmers’ Inspired Annual National Conference*, Los Angeles California, Feb. 1-7, 2018.

**Singh-Knights, D.**, and M. Knights (2018). Enhancing productivity of sheep through greater access and use of genetically evaluated breeding stock. *Poster Presentation in Proceedings of the Sustainable Agriculture Research and Education National Conference (Our Farms, Our Future Conference - The Next 30 Years of Sustainable Agriculture)*, St. Louis, Missouri, April 2018.

**Singh-Knights, D.**, M. Recklin, and O. Adebisi (2018). The Mountain State Maple Days – A Model of Cluster Development and Collaboration in the Agritourism Supply Chain. *Presentation at the*

2018 Annual National Association of Community Development Extension Professionals (NACDEP) Conference, Cleveland, Ohio, June 10-13, 2018.

**Singh-Knights, D.** and M. Recklin (2018). Understanding Cluster Development and Collaboration in the Agritourism Supply Chain - The Mountain State Maple Days. *Presentation at the 2018 Extension Risk Management Education National Conference*, Milwaukee, WI, April 2018.

Adebisi, O., and **D. Singh-Knights (2018)**. Agritourism Micro-cluster Networks as a Catalyst for Promoting Sustainable Community Development. *Poster presented at the 76<sup>th</sup> Agricultural Professionals Conference*, Tuskegee, AL, December 2-4, 2018.

Knights, M. and **D. Singh-Knights (2018)**. Approaches to Enhancing Lambing Rate from Out of Season Breeding. National Webinar for the American Sheep Industry (ASI) Association, Dec. 11<sup>th</sup>, 2018.

**Singh-Knights, D.**, D. Bailey, B. Brabham, K. Cox, and A. Straight (2017). Best Practices in Extension Risk Management Programming for Social Entrepreneurs. *Poster presentation in Proceedings of the 2017 Extension Risk Management Education National Conference*, Cincinnati, OH, April 11-12, 2017.

Bailey, D., J. Richmond, B. Brabham, **D. Singh-Knights**, K. Cox, S. Huffman, A. Straight, and J. Williams (2017). Tips and Practices for Starting and Maintaining an Annual Woman in Agriculture Conference. *Poster presentation in Proceedings of the 2017 Extension Risk Management Education National Conference*, Cincinnati, OH, April 11-12, 2017.

Liedl B. E., **D. Singh-Knights** and M. Knights (2017). Lessons from the WV Sustainable Agriculture Needs Assessment Survey. *Presentation in Proceedings of the 17th Biennial 1890 Research Symposium*, Atlanta, Georgia, April 1-4, 2017.

Wolinski, L., **D. Singh-Knights**, Cannella, M., and S. Wilmer (2017). Whole Farm Tour – Hands-on Farm Financial Management Education. *Farm Tour and Presentation in Proceedings of the National Farm Viability Conference*, Albany, NY, May 22-24, 2017.

**Singh-Knights, D.**, B. Brabham, D. Bailey and J. Richmond (2016). The ‘West Virginia Agritourism Initiative’ – Business Planning and Risk Management Education for Stakeholders in the Agritourism Supply Chain. *Poster presentation at the 2016 NACAA AM/PIC Annual Meeting*, Little Rock, AR, July 24th - 28<sup>th</sup>, 2016.

**Singh-Knights, D.**, D. Bailey, B. Brabham, K. Cox, S. Huffman, J. Richmond, J. Williams, and A. Straight (2016). West Virginia Female Farmers Receive Risk Mitigation Training by Engaging in Peer-to-Peer Learning on Farm Tours. *Poster presentation at the 2016 NACAA AM/PIC Annual Meeting*, Little Rock, AR, July 24th - 28<sup>th</sup>, 2016.

**Singh-Knights, D.**, B. Brabham, D. Bailey, J. Richmond, and A. Straight (2016). Whole Farm Risk Assessment and Action Planning – Tools for Building an Effective Risk Management Action Plan. *Poster presentation in Proceedings of the 2016 Extension Risk Management Education National Conference*, Fort Worth, TX, April 27-28, 2016.  
<http://www.agrisk.umn.edu/Library/ConferenceMaterials.aspx?ConfID=15>

**Singh-Knights, D.**, B. Brabham, D. Bailey, and J. Richmond (2016). The “WV Agritourism Initiative” – Whole-Farm Planning and Education for Agritourism Stakeholders. *Poster presentation in Proceedings of the 2016 Extension Risk Management Education National Conference*, Fort Worth, TX, April 27-28, 2016.  
<http://www.agrisk.umn.edu/Library/ConferenceMaterials.aspx?ConfID=15>

Bailey, D., **D. Singh-Knights**, D. Bailey, B. Brabham, K. Cox, S. Huffman, J. Richmond, J. Williams, and A. Straight (2016) (2016). West Virginia Female Farmers Receive Risk Mitigation Training by Engaging in

Peer to Peer Learning on Farm Tours. *Presentation in Proceedings of the 2016 Extension Risk Management Education National Conference*, Fort Worth, TX, April 27-28, 2016. <http://www.agrisk.umn.edu/Library/ConferenceMaterials.aspx?ConfID=15>

**Singh-Knights, D.,** and C. Martel (2016). Innovation and Collaboration in the Agritourism Supply Chain – Cluster Development and Implications for Marketing. Presentation in the *Proceedings of the 2016 ANREP/NACDEP Conference*, Burlington, VT, June 26-29<sup>th</sup>, 2016. <http://www.nacdep.net/2016-anrep-nacdep-conference>

**Singh-Knights, D.,** and C. Martel (2016). Building Viable Agritourism Operations through Business Planning and Risk-Management Education – The ‘WV Agritourism Initiative’. Poster presentation in the *Proceedings of the 2016 ANREP/NACDEP Conference*, Burlington, VT, June 26-29<sup>th</sup>, 2016. <http://www.nacdep.net/2016-anrep-nacdep-conference>

**Singh-Knights, D.,** B. Brabham, D. Bailey and J. Richmond (2015). Encouraging Holistic Risk-Mitigation Adoption among WV Annie’s Project Participants – The 5-Page Business Plan for Whole-Farm Planning. Research Presentation in *Proceedings of the 2015 Extension Risk Management Education National Conference* - Minneapolis, MN, April 29-30, 2015. <http://www.agrisk.umn.edu/Library/ConferenceMaterials.aspx?ConfID=14>

**Singh-Knights, D.,** B. Brabham, D. Bailey and J. Richmond (2015). Risk-Mitigation in Agritourism Operations - GIS and Potential-Assessment Tools for Stimulating Micro-Cluster Development. Research Poster in *Proceedings of the 2015 Extension Risk Management Education National Conference* - Minneapolis, MN, April 29-30, 2015. <http://www.agrisk.umn.edu/Library/ConferenceMaterials.aspx?ConfID=14>

**Singh-Knights, D.,** and Barbara Liedl (2015). Implementing Effective Sustainable Agriculture Risk Management Programs - Lessons from the WV Sustainable Agriculture Needs Assessment Survey. Research Poster in *Proceedings of the the 2015 Extension Risk Management Education National Conference* - Minneapolis, MN, April 29-30, 2015. <http://www.agrisk.umn.edu/Library/ConferenceMaterials.aspx?ConfID=14>

**Singh-Knights, D.,** B. Brabham, D. Bailey and J. Richmond (2015). Building Viable Agritourism and Farm-Based Education Operations through Risk-Management Education – Strategies for Sustained Adult Learning. Research Poster in *Proceedings of the 2015 Extension Risk Management Education National Conference* - Minneapolis, MN, April 29-30, 2015. <http://www.agrisk.umn.edu/Library/ConferenceMaterials.aspx?ConfID=14>

**Singh-Knights, D.** (2015). National Webinar – Statewide Teamwork: Peer to Peer Ideas for developing your State’s Annie’s Project Team. National Webinar for the National Annie’s Coalition, April 16<sup>th</sup>, 2015.

**Singh-Knights, D.,** and C. Martel (2015). Linking Agriculture, Tourism, Economics and Education While Building Rural Communities. Research Presentation in *Proceedings of the VT Agritourism Collaborative Conference* - Welcoming Customers on Your Farm to Increase Farm Profits, April 7-8, 2015, Rutland, VT. <http://www.uvm.edu/vtagritourism/?Page=news&storyID=20707&category=vtat>

**Singh-Knights, D.** (2015). Pasture, Profits and Prices. Invited Presentation in the Proceedings of the 2015 Appalachian Grazing Conference, March 13-14, Morgantown WV. [https://www.youtube.com/playlist?list=PLeFOxH0RzQ4dw2QJ8o9T3JP57ChO3vi4E&fb\\_action\\_ids=796463430430788&fb\\_action\\_types=og.shares](https://www.youtube.com/playlist?list=PLeFOxH0RzQ4dw2QJ8o9T3JP57ChO3vi4E&fb_action_ids=796463430430788&fb_action_types=og.shares)

**Singh-Knights, D.,** and Martel, C. (2014). Building Rural Communities through Collaborations and an Expanding Agritourism-Based Model - Agritourism, Education and Economics on your Farm. Research



Presentation at the Food Systems Summit, Burlington, VT, June, 2014.  
<http://www.uvm.edu/foodsystems/?Page=summit2014.html&SM=summitmenu.html>

**Singh-Knights, D.**, Richmond, J., Brabham, B., Straight, A., and Bailey, D (2014). WV Annie's Project Online Course: Understanding Online Best Practice for Adult Learners. Research Poster at the 2014 Women in Agriculture Educators National Conference – Indianapolis, IN, April 2-3, 2014.  
<http://www.agrisk.umn.edu/Library/ConferenceMaterials.aspx?ConfID=13>

D'Souza, K., **Singh-Knights, D.**, and Knights, M. (2014). Characteristics of WV Small Ruminant Producers: Implications for Extension and Industry Partnerships. Research Poster at the 2014 Women in Agriculture Educators National Conference – Indianapolis, IN, April 2-3, 2014.  
<http://www.agrisk.umn.edu/Library/ConferenceMaterials.aspx?ConfID=13>

**Singh-Knights, D.**, Martel, C., Richmond, J., Bailey, D., and Poling, J. (2014). Agritourism, Education and Economics on your Farm - Tools for Risk Management Centered Decision-Making. Research Presentation at the 2014 Women in Agriculture Educators National Conference – Indianapolis, IN, April 2-3, 2014.  
<http://www.agrisk.umn.edu/Library/ConferenceMaterials.aspx?ConfID=13>

**Singh-Knights, D.**, Straight, A, and Wilson, N. (2014). Managing Risks and Returns in Emerging, Higher-Value Markets - WV Small-Scale, Pastured Poultry Short Course. Research Presentation at the 2014 Women in Agriculture Educators National Conference – Indianapolis, IN, April 2-3, 2014.  
<http://www.agrisk.umn.edu/Library/ConferenceMaterials.aspx?ConfID=13>

Knights, M., Lambie, N., Ramgattie, R., **Singh-Knights, D.**, and Siew, N (2013). Evaluation of Timed Artificial Insemination Protocols in Water Buffaloes in the Tropics. Presentation at the 49th Annual Meeting Food Crops and Livestock Society, Port-of-Spain, Trinidad, June 30 – July 6, 2013;  
<http://www.cardi.org/blog/49th-annual-meeting-caribbean-food-crops-society-cfcs/>).

D'Souza, K., **Singh-Knights, D.**, and Knights, M. (2013). A Risk Management Strategy for Sheep Producers: The Benefits of Breeding Sheep Outside Their Normal Breeding Season. Poster Presentation at the 7th Extension Risk Management Education National Conference, Denver, Colorado, April 3-4, 2013.

**Singh-Knights, D.**, Fryman, D., Richmond, J., Straight, A., and Poling, J. (2013) Barriers to Risk Management Strategy Adoption for Female Agripreneurs in WV. Presentation at the 7th Extension Risk Management Education National Conference, Denver, Colorado, April 3-4, 2013.

**Singh-Knights, D.**, Liedl, B., and Wilson, N. (2013). Sustaining Family Farms and their Communities - Building New Capacity to Enter and Compete in Local Markets in West Virginia and Western Maryland. Poster Presented at the NACDEP Galaxy IV 2013 National Conference, Pittsburgh, PA, Sept. 15-20, 2013.

**Singh-Knights, D.**, Brabham, B., Fryman, D., Straight, A., Richmond, J., Huffman, S., and Poling, J. (2013). Factors Affecting Risk Management Strategy Adoption among WV Women Farmers. Poster Presented at the NACDEP Galaxy IV 2013 National Conference, Pittsburgh, PA, Sept. 15-20, 2013.

Dickson, N., N. Siew, G. Bourne, **D. Singh-Knights** and M. Knights (2012). "Cost Effectiveness of Timed Artificial Insemination in Dairy Cattle in the Tropics". Selected Paper Presentation at the 48<sup>th</sup> Annual Meeting of the Caribbean Food Crops Society, Quintana Roo, Mexico, May 20-26, 2012.

Williams, J., **D Singh-Knights**, B. Brabham and N. Wilson (2012). "Building Your Legacy, Tips and Tools on Developing an Agricultural Advocacy Program". Selected Presentation at the Women in Agriculture Educators National Conference, Memphis, TN., March 28-29, 2012.



Brabham, B., D. Fryman, S. Huffman, J. Richmond, **D Singh-Knights**, A. Straight, J. Williams, N. Wilson and J. Woloshuk (2012). "Maximize Your Efforts: Tools to Effectively Promote and Market Your Women in Agriculture Program". Selected Poster Presentation at the Women in Agriculture Educators National Conference, Memphis, TN., March 28-29, 2012.

Rastogi, R., **D. Singh-Knights** and M. Knights (2010). "Estimates of Net Returns and Economic Values for Specific Traits in Rabbit Production in Trinidad and Tobago". Selected Paper Presentation at the IV Cuniculture Congress of the Americas Córdoba, Argentina, September 22-24, 2010

**Singh-Knights, D.**, and S. Hutchinson (2009). - "Caribbean Food Insecurity and US-Caribbean Trade – Implications for the Agribusiness Sector". *Selected Paper Presentation at the Annual Meeting of the American Agricultural Economics Association*, Milwaukee, WI, July 2009

Patterson, A., **D. Singh-Knights** and M. Knights.(2008) "Analyzing the Impact of Marketing Margins on Food Prices for Selected Commodities in Trinidad and Tobago. Selected Paper Presentation at the International Congress on Sustainable Agri-food Systems in the Tropics, Trinidad, December 2008.

Palmer, D., **D. Singh-Knights** and M. Knights.(2008) – "Assessing the Market Demand for Goats' Milk in Trinidad and Tobago". . Selected Paper Presentation at the International Congress on Sustainable Agri-food Systems in the Tropics, Trinidad, December 2008.

**Singh-Knights, D.** and Marlon Knights (2006). "Flock Health and Management Calendar for Spring and Fall Lambing in West Virginia". WVU Agricultural Experiment Station Fact Sheet (**Peer-reviewed**).

**Singh-Knights, D.**, Marlon Knights and Dennis K. Smith (2006). "Management and Marketing Considerations for West Virginia Sheep Producers". WVU Agricultural Experiment Station Fact Sheet (**Peer-Reviewed**).

**Singh-Knights, Doolarie** and D. Smith (2005). "Entrepreneurship and Small Business Survival in the Northeast: The Case of West Virginia." Selected Paper Presentation at the Rural Entrepreneurship and Community Development in the Northeast Conference, Burlington, VT, September 2005.

**Singh-Knights, Doolarie**, D. Smith and M. Knights (2005). "A Hedonic Analysis of Sheep and Goat Prices in a Changing Environment: The Role of Consumers and Implications for Management." Selected Paper Presentation at the Annual Meeting of the American Agricultural Economics Association, Providence, RI, July 2005.

**Singh-Knights, Doolarie**, D. Smith and M. Knights (2005). "Developing Needed Price Premiums for Selecting Optimal Marketing Strategies for Sheep Producers in West Virginia." Selected Paper Presentation at the Northeastern Agricultural and Resource Economics Association Conference, Annapolis, MD, June 2005.

**Singh D.**, D. Smith D. and T. Phipps (2002). "An Economic Analysis of Two-Tier Tariff Rate Import Quotas: Section 201 Trade Action for the Sheep Industry". In: Proceedings of the Meetings of the Center for North American Studies (Meetings of the Free Trade of the Americas, the WTO and the New Farm Legislation), May, 2002, San Antonio Texas. <http://cnas.tamu.edu/publications/powerpoint/program2.htm>.

**Singh D**, P.E. Lewis., M. Knights and D. Smith (2000). Analysis of Decision-Making Factors for Sheep Producers in West Virginia: Implications for the U.S. Sheep Industry. Selected Paper Presentation at the Northeastern Agricultural and Resource Economics Association Annual Meeting, June 2000, Whispering Pines Conference Center, Rhode Island.

**Singh D** (2000). Analysis of Management Decisions of Sheep Producers in West Virginia. Selected Paper Presentation at the West Virginia University's College of Agriculture, Forestry and Consumer Sciences' Graduate Paper and Poster Competition, April, 2000

## **Statewide (WV) Conferences and Webinar Presentations:**

**Singh-Knights, D.** and C. Martel (2018). Showcasing the Best of West Virginia Agriculture – Partnerships and Collaborations in the Agritourism Supply Chain. *Presentation at the WV Women in Agriculture Conference, Wheeling, WV, Sept. 2-3, 2018*

**Singh-Knights, D.** and C. Martel (2018). Tap to Table: Promoting Sustainability through Cluster Development in the Agritourism Supply. *Presentation at the Southern Syrup Research Symposium, Summersville, WV, Sept. 29th, 2018*

Martel, C., and **D. Singh-Knights (2018)**. The Business of Marketing Your Syrup Products. *Presentation at the Southern Syrup Research Symposium, Summersville, WV, Sept. 29<sup>th</sup>, 2018.*

**Singh-Knights, D.,** and C. Martel (2018). A Look at West Virginia Agritourism Now and Years to Come. *Invited Presentation at the 2018 WV Governor's Conference on Tourism, Morgantown, WV, Sept. 18-20, 2018.*

Moore, J., and **D. Singh-Knights** (2018). Food Safety Modernization Act (FSMA) and GAPs. *Presentation at the WV Urban Agriculture Conference, May 12<sup>th</sup>, 2018*

**Singh-Knights, D.,** and C. Martel (2018). Selling the WV Rural Tourism Story through Partnerships and Collaborations in the Agritourism Supply Chain. *Presentation and Workshop at the 4<sup>th</sup> Annual Ag Innovation Showcase, November 14, 2018, Moorefield, WV.*

**Singh-Knights, D.,** and C. Martel (2017). Getting a Handle on your 4 P's in Marketing. *Presentation at the 4<sup>th</sup> Annual WV Urban Agriculture Conference, Charleston, WV. April 28-29, 2017.*

**Singh-Knights, D.** (2017). Top 10 Lessons in Pricing your Product for Profitability. *Presentation at the 4<sup>th</sup> Annual WV Urban Agriculture Conference, Charleston, WV. April 28-29, 2017.*

**Singh-Knights, D.,** and B. Liedl (2017). Selling Through Farm Stories. *Presentation at the 4<sup>th</sup> Annual WV Urban Agriculture Conference, Charleston, WV. April 28-29, 2017.*

**Singh-Knights, D.,** and C. Martel (2017). The WV Market Readiness Program. *Presentation at the 4<sup>th</sup> Annual WV Urban Agriculture Conference, Charleston, WV. April 28-29, 2017.*

**Singh-Knights, D.,** and B. Liedl (2017). The WV Market Readiness Program - Round Table with Restaurants & Farmers Markets & CSAs. *Presentation at the 4<sup>th</sup> Annual WV Urban Agriculture Conference, Charleston, WV. April 28-29, 2017.*

**Singh-Knights, D.,** and E. Wells (2017). Logos, Photos and Infographics – DIY Visual Communications Presentation. *Presentation at the 2017 West Virginia Women in Agriculture Conference. Kingwood, WV. October 20-21, 2017.*

**Singh-Knights, D.** and C. Martel (2017) - Agricultural Marketing Services Technical Assistance Grant Writing Short Course for a variety of USDA, SARE, WVDA and AMS Grants. Short-Course at the 2017 WV Agricultural Technology Showcase Conference, Moorefield, WV. Nov. 1-2, 2017.

**Singh-Knights, D.** and C. Martel (2017) - Agritourism and Community Development: Opportunities and Challenges. *Presentation at the 2017 WV Agricultural Technology Showcase Conference, Moorefield, WV. Nov. 1, 2017.*

**Singh-Knights, D.** and C. Martel (2017) - Agritourism as a Farm Diversification Strategy. Presentation at the 2017 WV Agricultural Technology Showcase Conference, Moorefield, WV. Nov. 2, 2017.

**Singh-Knights, D.** and C. Martel (2017) - Building a Farm Trail: Developing effective agritourism/agribusiness/small business associations to enhance rural tourism and promote local businesses. Presentation at the 2017 WV Agricultural Technology Showcase Conference, Moorefield, WV. Nov. 2, 2017.

**Singh-Knights, D.,** (2016) - Farm Finances 101- 'FARM-TUNING' your Management Decisions. Presentation at the Urban Agriculture Conference, Charleston, WV, Apr. 30<sup>th</sup>, 2016.

**Singh-Knights, D.,** B. Brabham, D. Bailey, A. Straight, J. Richmond, and S. Huffman (2016) - WV Annie's Project: Enhancing Farm Viability through Improved Risk Management for WV Women in Agriculture. Poster Presented at the 12<sup>th</sup> Annual West Virginia Small Farms Conference, Charleston, WV, Feb. 25 to 27<sup>th</sup>, 2016.

**Singh-Knights, D.,** and D. Eades (2016) - How Agritourism is Important to Your Farm: Unveiling the Results of the First West Virginia Agritourism Economic Impact Assessment. Presentation at the 12<sup>th</sup> Annual West Virginia Small Farms Conference, Charleston, WV, Feb. 25 to 27<sup>th</sup>, 2016.

**Singh-Knights, D.** (2016) - The West Virginia Agritourism Initiative: Benefitting from the True Potential of Almost Heaven. Presentation at the 12<sup>th</sup> Annual West Virginia Small Farms Conference, Charleston, WV, Feb. 25 to 27<sup>th</sup>, 2016.

**Singh-Knights, D.** (2016) - Are You My Competitor or My Business Partner – Exploring Cluster Development in West Virginia Agritourism. Presentation at the 12th Annual West Virginia Small Farms Conference, Charleston, WV, Feb. 25 to 27th, 2016.

**Singh-Knights, D.** (2016) - The Business Side of Agritourism: So You Want to Add an Attraction? Presentation at the 12th Annual West Virginia Small Farms Conference, Charleston, WV, Feb. 25 to 27th, 2016.

**Singh-Knights, D.** (2015) – The Economics of Agritourism. Presentation at the 11<sup>th</sup> Annual Small Farms Conference, Charleston, WV, Feb 25<sup>th</sup>, 2015.

**Singh-Knights, D.,** and B. Liedl (2015) – NESARE Resources and Grant Opportunities. Presentation at the 11<sup>th</sup> Annual Small Farms Conference, Charleston, WV, Feb 25<sup>th</sup>, 2015.

**Singh-Knights, D.** (2015) - Budgeting and Risk Management – Whole-Farm Planning Best Practices. Teaching Workshop at the Urban Agriculture Conference, Charleston, WV, Sept. 19<sup>th</sup>, 2015.

**Singh-Knights, D.** (2015) - Setting your Market Price - 10 Lessons in Effectively Pricing Your Product for Market. Teaching Workshop at the Urban Agriculture Conference, Charleston, WV, Sept. 19<sup>th</sup>, 2015.

**Singh-Knights, D.,** B. Liedl and C. Martel (2015) - Agricultural Marketing Services Technical Assistance Grant Writing Short Course for a variety of USDA, SARE, WVDA and AMS Grants. Short-Course at the 2015 WV Agricultural Technology Showcase Conference, Moorefield, WV. Oct 15-16<sup>th</sup>, 2015.

**Singh-Knights, D.,** B. Liedl and C. Martel (2015) - Understanding your Market and Making a Sales Pitch. Presentation at the 2015 WV Agricultural Technology Showcase Conference, Moorefield, WV. Oct 15-16<sup>th</sup>, 2015.

**Singh-Knights, D** (2015) - Direct Marketing and Agritourism – 10 Tips for Creating a Great First Impression. Presentation at the WV Women in Agriculture Conference, Davis, WV, Oct 23-24<sup>th</sup>, 2015.

**Singh-Knights, D** (2015) - Price Determination - 10 Lessons in Effectively Pricing Your Product for Market. Presentation at the 2nd Annual Agribusiness Conference, Martinsburg, WV, Nov. 6<sup>th</sup>, 2015.

**Singh-Knights, D., and C. Martel** (2015) - Agri-tourism: The Four C's of Marketing and Beyond. Presentation at the 2nd Annual Agribusiness Conference, Martinsburg, WV, Nov. 6<sup>th</sup>, 2015.

**Singh-Knights, D.** (2015) - Budgeting and Risk Management – Whole-Farm Planning Best Practices – Presentation at the WVUES Tri- Conference, Huntington, WV, Nov. 14<sup>th</sup>, 2015.

**Singh-Knights, D.** (2015) - Who Will Help Me Fund This Idea – Writing a Winning Grant Proposal – Presentation at the WVUES Tri- Conference, Huntington, WV, Nov. 14<sup>th</sup>, 2015.

**Singh-Knights, D.** (2014) - Understanding your Market and Making a Winning Sales Pitch - 2014 Farm Opportunities Day Conference, Glenville, WV, Jan. 25<sup>th</sup>, 2014.

**Singh-Knights, D.** (2014) - Adding Value to your Farm: Agritourism or Food Businesses - 2014 Farm Opportunities Day Conference, Glenville, WV, Jan. 25<sup>th</sup>, 2014.

**Singh-Knights, D.** (2014) - Price Determination. Presentation at the 11th Annual West Virginia Small Farms Conference, Morgantown, WV, Feb. 25 to 27<sup>th</sup>, 2014.

**Singh-Knights, D.** (2014) - Customizing a Farm Food Safety Plan Template, Presentation at the 11th Annual West Virginia Small Farms Conference, Morgantown, WV, Feb. 25 to 27<sup>th</sup>, 2014.

**Singh-Knights, D. and C. Martel** (2014) - Agri-tourism: The Four C's of Marketing and Beyond, Presentation at the 11th Annual West Virginia Small Farms Conference, Morgantown, WV, Feb. 25 to 27<sup>th</sup>, 2014.

**Singh-Knights, D.** (2014) - Keynote Address: Got Sustainability – Learning from the Past, Working in the Present, Planning for the Future. KEYNOTE ADDRESS at the Urban Agriculture Conference, Charleston, WV, April 11<sup>th</sup>, 2014.

**Singh-Knights, D.** (2014) - Nut and Bolts of Business Planning: The Three-Page Business Plan. Teaching Workshop at the Urban Agriculture Conference, Charleston, WV, April 11<sup>th</sup>, 2014.

**Singh-Knights, D.** (2014) - 10 Lessons in Pricing Your Product for Market. Teaching Workshop at the Urban Agriculture Conference, Charleston, WV, April 11<sup>th</sup>, 2014.

**Singh-Knights, D. and B. Liedl** (2014) - Food Safety 101 – Benefitting Customers and Your Bottom Line. Teaching Workshop at the Urban Agriculture Conference, Charleston, WV, April 11<sup>th</sup>, 2014.

**Singh-Knights, D.** (2014) - Strengthening Rural Economies – Growing the Local Agribusiness Economy. 2014 WVUES Community Leadership Academy Conference, Morgantown, WV, October 3<sup>rd</sup>, 2014.

**Singh-Knights, D** (2014) - Annie's Project Highlights – 2011 - 2014. Presentation at the WV Women in Agriculture Conference, Roanoke, WV, November 11<sup>th</sup>, 2014.

**Singh-Knights, D** (2014) - Growing Agritourism and Farm-Based Education in WV. Presentation at the WV Women in Agriculture Conference, Roanoke, WV, November 11<sup>th</sup>, 2014.

**Singh-Knights, D.** (2013) - The Business Side of Agritourism – Is this Business Economically Feasible? Presentation at the 10th Annual West Virginia Small Farms Conference Agritourism Workshop, Morgantown, WV, Feb. 28<sup>th</sup> to March 01, 2013.

**Singh-Knights, D.** (2013) - Business Planning for the Agritourism Enterprise – Planning for the Big Picture. Presentation at the 10th Annual West Virginia Small Farms Conference Agritourism Workshop, Morgantown, WV, Feb. 28<sup>th</sup> to March 01, 2013.

**Singh-Knights, D.** (2013) - Pricing Your Product for Market. Presentation at the 10th Annual West Virginia Small Farms Conference, Morgantown, WV, Feb. 28<sup>th</sup> to March 01, 2013.

**Singh-Knights, D.** (2013) - I Cannot Change What I do not Measure – Understanding your Farm Numbers. Presentation at the 10th Annual West Virginia Small Farms Conference, Morgantown, WV, Feb. 28<sup>th</sup> to March 01, 2013.

**Singh-Knights, D.** (2013) - Pricing Your Product for Market – Ten Lessons you should follow. Presentation at the 10th Annual West Virginia Small Farms Conference, Morgantown, WV, Feb. 28<sup>th</sup> to March 01, 2013.

**Singh-Knights, D.** (2012) - So You Want to Start a Food Business – Business Planning Process. Presentation at the 9th Annual West Virginia Small Farms Conference Food Business Workshop, Morgantown, WV, Feb. 29<sup>th</sup> to March 01, 2012.

**Singh-Knights, D.** (2012) - The Small Farm Dream – Record Keeping Essentials. Presentation at the 9th Annual West Virginia Small Farms Conference Food Business Workshop, Morgantown, WV, Feb. 29<sup>th</sup> to March 01, 2012.

**Singh-Knights, D.** (2012) - Is Entrepreneurial Farming for You? - Building a Sustainable Agricultural Business through Improved Business Planning and Financial Analysis. Presentation at the WV County Agents Agricultural Association Conference, Parkersburg, WV, April 25-27, 2012.

**Singh-Knights, D. (2011).** Addressing Challenges to Agriculture Productivity and Profitability in Small Island Developing States. WVU's International Research Symposium, Morgantown, WV. Oct 21, 2011.

**Singh-Knights, D.** (2011). Production Cost Analysis for High-Tunnels. WV Tri-State Conference, Huntington, WV, Oct 13, 2012.

**Singh-Knights, D., and M. Knights** (2011). Lamb Prices, Marketing and Management Decisions Related to the ASI Let's Grow with twoPLUS Campaign. WV Performance Tested Ram Sale Educational Program, Wardensville, WV, July 23, 2011.

**Singh-Knights, D.** (2011). The Small Farm Dream – Farm Planning and Record Keeping. WV Tri-State Conference, Huntington, WV, Nov 4, 2011.

**Singh-Knights, D.** (2011). Evaluating the Feasibility of your Small Farm Enterprise. WV Tri-State Conference, Huntington, WV, Nov 4, 2011.

**Singh-Knights, D.** (2011). SARE Farmer Grant Opportunities. WV Tri-State Conference, Huntington, WV, Nov 4, 2011.

## **Technical Reports, Newsletters, Bulletins, and Articles in Popular Press:**

**Singh-Knights, D.** and M. Knights (2018). Enhancing productivity of sheep through greater access and use of genetically evaluated. Partnership Grant Program Final Report submitted to NESARE, Jan 2018: [https://projects.sare.org/sare\\_project/one14-223/](https://projects.sare.org/sare_project/one14-223/)

Knights, M. and **D. Singh-Knights** (2018). Enhancing Productivity of Ewe Lambs Through Use of Reproductive Management. Research and Education Grant Program Final Report submitted to NESARE, Jan 2018: [https://projects.sare.org/sare\\_project/line14-333/](https://projects.sare.org/sare_project/line14-333/)

**Singh-Knights, D.** (2018). Annual report for the WV NESARE Professional Development Program. Submitted to NESARE Dec. 2018. <https://www.nesare.org/State-Programs/West-Virginia/Enhancing->

[Social-Agripreneurs-Viability-and-Profitability-through-Education-Agribusiness-Clustering-Partnerships-and-Networking-Opportunities](#)

Carr, S., **D. Singh-Knights** and M. Knights (2018). Steady goes it! Average growth rates throughout life might be the best option for high fertility in replacement ewe lambs. Article for the WVUES Small Farm Advocate, Winter 2018.

**D. Singh-Knights (2017)**. Enhancing farm viability and profitability through Improved Risk Management. Annual State Professional Development Grant report submitted to NESARE, Jan 2017: <https://www.nesare.org/State-Programs/West-Virginia/Enhancing-farm-viability-and-profitability-through-improved-risk-management>.

**Singh-Knights, D.**, (2017). Bridging the GAPs - WV Food Safety Training for Small and Mid-Sized Farms. Final Report for Risk-Management Grant submitted to NERME, Oct. 2017: <https://rvs.umn.edu/user/Default.aspx>.

**Singh-Knights, D.**, (2017). Managing Marketing and Legal Risks Associated with Direct Markets for Local Foods in West Virginia - WV Market Ready Program. Final Report for Risk-Management Grant submitted to NERME, Oct. 2017: <https://rvs.umn.edu/user/Default.aspx>.

Liedl, B., and **D. Singh-Knights**. (2017). SCBG Maximizing Profitability & Productivity for Sustainable Multiple Vegetable Crop Prod in WV HIGH TUNNELS. Final Report for Specialty Crop Block Grant, submitted to WV Department of Agriculture, Oct. 2017

**Singh-Knights, D.** (2016) – Planning for Profitability - Top 10 Lessons in managing healthy profits for a sustainable future. Toolkit Chapter, WV Farmers Market Association New Vendor Toolkit, September, 2016.

**Singh-Knights, D.**, and M. Knights (2016) – Pollution Solutions - Professional Development for Agricultural Service Providers in Pollution Discharge Elimination System. NESARE Winter 2016 Newsletter, Sept., 2016: <http://www.nesare.org/Dig-Deeper/Useful-resources/Northeast-SARE-Newsletters/Winter-2016>

**Singh-Knights, D.**, M. Knights, T. Basden and J. Faulkner (2016) – Professional Development for Agricultural Service Providers in Pollution Discharge Elimination System. Final Report for Professional Development Grant submitted to NESARE, January, 2016: [http://mysare.sare.org/sare\\_project/ENE12-126/?page=final](http://mysare.sare.org/sare_project/ENE12-126/?page=final)

**Singh-Knights, D.**, M. Knights, T. Basden and J. Faulkner (2016) – Pollution Solutions - Professional Development for Agricultural Service Providers in Pollution Discharge Elimination System. Project Summary Outreach Bulletin, January, 2016: <http://www.nesare.org/Dig-Deeper/Pictures-Stories-and-Video/Pollution-solutions>

**Singh-Knights, D.** (2016) – Professional Development for Agricultural Service Providers in Pollution Discharge Elimination System. Northeast SARE Winter 2016 Newsletter: <http://www.nesare.org/Dig-Deeper/Useful-resources/Northeast-SARE-Newsletters/Winter-2016>

Knights, M., and **D. Singh-Knights (2016)**. Enhancing the productivity of ewe lambs through the use of reproductive management. Annual research and education grant report submitted to NESARE, Jan 2016: [http://mysare.sare.org/sare\\_project/LNE14-333/?page=annual&y=2015](http://mysare.sare.org/sare_project/LNE14-333/?page=annual&y=2015)

**Singh-Knights, D.** (2015) – Face of Agriculture is changing in WV. Contributing Editor, Charleston Gazette. October 19<sup>th</sup>, 2015.

**Singh-Knights, D.** (2015). So You Want to Start an Agritourism Enterprise – Considerations for Starting or Expanding your Agritourism Offerings - 5-Series Toolkit. WVUES Extension Publication (Under Review).

**Singh-Knights, D.** (2015). Partial Budgeting – A Key Tool in Agribusiness Financial Management. WVUES Extension Factsheet Publication (Under Review).

Knights, M., and **Singh-Knights, D.** (2015). Lifetime productivity of the ewe flock starts with the ewe lamb. WVUES Extension Factsheet Publication (Under Review).

Knights, M., and **Singh-Knights, D.** (2015). Benefits of Genetic Selection through NSIP's Lambplan program (Under Review).

Knights, M., and **Singh-Knights, D.** (2015). Lifetime productivity of the ewe flock starts with the ewe lamb. Article for the WVUES Small Farm Advocate, Summer 2015.

Knights, M., and **Singh-Knights, D.** (2015). Benefits of Genetic Selection through NSIP's Lambplan program. Article for the WVUES Small Farm Advocate, Summer 2015

**Singh-Knights, D.,** and C. Martel (2015). "The New Face of Agritourism - Combining Agriculture, Entertainment, Education and Economics on the Farm." Article for the WVUES Small Farm Advocate, Summer 2015.

**Singh-Knights, D.,** (2015). WV Annie's II - Building on Risk Management Improvements for Female Agripreneurs in WV. Final Report for Risk-Management Grant submitted to NERME, Jan. 2015: <https://rvs.umn.edu/user/Default.aspx>.

**Singh-Knights, D.,** (2015). Growing Agritourism and farm-Based Education in West Virginia – Managing Risks for Improved Income Diversification. Final Report for Risk-Management Grant submitted to NERME, Jan. 2015: <https://rvs.umn.edu/user/Default.aspx>.

**Singh-Knights, D.** (2014). Sustaining family farms and their communities by building new capacity to enter and compete in locally accessible higher-value markets. Final Report for State Professional Development Program submitted to NESARE, Sept. 2014: <http://www.nesare.org/State-Programs/West-Virginia/Accessing-higher-value-markets>

Knights, M., and **Singh-Knights, D.** (2014). "Lifetime productivity of the ewe flock starts with the ewe lamb." 'News Ewe Can Use' Newsletter, Volume – Winter 2014.

D'Souza, K., Knights, M., and **Singh-Knights, D.** (2014). "Benefits of Genetic Selection through NSIP's Lambplan program." 'News Ewe Can Use' Newsletter, Volume – Winter 2014.

Singh-Knights, D. (2013). Management for Female Agripreneurs in WV. NERME Success Story Outreach Bulletin, Aug. 2013: <http://www.nerme.org/funding/success-stories/>.

Knights, M., K. D'Souza, S. Simpson, **D. Singh-Knights,** B. Smith (2013). Increasing Adoption of Out-of-Season Breeding to Enhance Profitability of Sheep Producers in West Virginia. Final Report for Graduate Student Grant submitted to NESARE, Sept. 2013: [http://mysare.sare.org/sare\\_project/GNE11-015/?page=final](http://mysare.sare.org/sare_project/GNE11-015/?page=final).

Knights, M., K. D'Souza, S. Simpson, **D. Singh-Knights,** B. Smith (2013). Effect of Continuous Suckling/"Ewe-rearing" on Growth and Level of Parasitism of Lambs and on Productivity and Profitability of Lamb Operations. Final Report for Graduate Student Grant submitted to NESARE, Sept. 2013: [http://mysare.sare.org/sare\\_project/GNE11-029/?page=final](http://mysare.sare.org/sare_project/GNE11-029/?page=final).



**Singh-Knights, D.,** (2012). WV Annie's Project – Enhancing farm Viability through Improved Risk Management for Female Agripreneurs in West Virginia. Final Report for Risk-Management Grant submitted to NERME, Jan. 201: <https://rvs.umn.edu/user/Default.aspx>.

**Singh-Knights, D.,** and M. Knights (2011). “Appraisal of Real Property Market Value for the Grassland Reserve Program (GRP) in West Virginia”. Report submitted to USDA/Natural Resources Conservation Service (NRCS) in fulfillment of Grant/Contract No.: 68-3D47-11-10. 44 Pages.

**Singh-Knights, D.,** and M. Knights (2011). “Appraisal of Real Property Market Value for the Wetland Reserve Program (WRP) in West Virginia”. Report submitted to USDA/Natural Resources Conservation Service (NRCS) in fulfillment of Grant/Contract No.: 68-3D47-11-11. 44 Pages.

**Singh-Knights, D.,** (2008). “Antigua and Barbuda Agriculture and Tourism Linkages and Agritourism – A Handbook”. Manual prepared for the Gilbert Agricultural and Rural Development Center (GARDC), Antigua and Barbuda. 60 pgs.

**Singh-Knights, D.,** and M. Knights (2005). “Feasibility of Goat Production in West Virginia.” ‘News Ewe Can Use’ Newsletter, Vol. 7 Issue 1, Spring 2005.

Knights, M., **D. Singh-Knights,** P. Lewis and K. Inskeep (2004). “Reproductive Management Practices to Improve profitability in Fall Breeding Flocks: Preparing for the Breeding Season”. ‘News Ewe Can Use’ Newsletter, Vol. 6 Issue 2.

**Singh-Knights, D.,** D. K. Smith and M. Knights (2004). “A Few Marketing Practices that can Improve the Bottom Line of Your Sheep Operation”. ‘News Ewe Can Use’ Newsletter, Vol. 6 Issue 2.

**Singh-Knights, D.,** (2003). An Analysis of West Virginia Lamb Marketing Alternatives. Unpublished Dissertation, West Virginia University, [On-line Abstract]. Available: [https://etd.wvu.edu/etd/etdDocumentData.jsp?jsp\\_etdId=3079](https://etd.wvu.edu/etd/etdDocumentData.jsp?jsp_etdId=3079)

O'dell, D., D.J. Marsh, **D. Singh-Knights,** G.F. Plaughter, P.E. Lewis, E.K. Inskeep, and D. Smith (2003). West Virginia Lamb Marketing Information Project Report submitted to West Virginia Department of Agriculture, Marketing and Development Division: <http://www.caf.wvu.edu/avs/sheep/LMIP.pdf>, March 2003.

**Singh-Knights, D.** (2000). An Analysis of the Management Decisions of Sheep Producers in West Virginia. Unpublished Master's Thesis, West Virginia University, [On-line Abstract]. Available: [https://etd.wvu.edu/etd/etdDocumentData.jsp?jsp\\_etdId=1542](https://etd.wvu.edu/etd/etdDocumentData.jsp?jsp_etdId=1542)

**Singh, D.** (1999). Cost Analysis of the West Virginia Sheep Industry: Comparing Sheep Herding Locations with Mapped Habitats of Coyotes. [www.nrac.wvu.edu/rm493-591/fall1999/students/singh/](http://www.nrac.wvu.edu/rm493-591/fall1999/students/singh/).

## International Research and Outreach Collaborations

**Singh-Knights, D. (2018).** Agritourism Collaborative and Mentorship Initiative – University of Trinidad and Tobago Local Foods and Agritourism Supply Chain Initiative. Collaborative with the University of Trinidad and Tobago, and the Ministries of Agriculture and Tourism in Trinidad and Tobago. June 8-17, 2018. Completed.

**Singh-Knights, D.** and M. Knights (2018). Davis College Sustainability Scholars Travel Abroad – Trinidad and Tobago. December 10-20, 2018. Completed.

**Singh-Knights, D. (2016).** Agritourism Collaborative and Mentorship Initiative – University of Trinidad

and Tobago Agritourism Supply Chain Initiative. Collaborative with the University of Trinidad and Tobago, and the Ministries of Agriculture and Tourism in Trinidad and Tobago. June 8-17, 2016. Completed.

Knights, M., and **D. Singh-Knights** (2010-2011). Addressing the need for a forage-based small ruminant development project – Collaborative effort with the Ministry of Agriculture and the National Small Ruminants Council in Trinidad and Tobago. 2010 – 2011. Completed.

Knights, M., and **D. Singh-Knights** (2010-2011). Development of a Business Plan for the Redevelopment of the Mon Jaloux Livestock Station (Tabaquite, Trinidad) and submitted to the National Food Prices Committee of Trinidad and Tobago. 2010 to 2011 – Completed.

Knights, M., and **D. Singh-Knights** (2009-2010). Preparation of Business Plans for the ECIAF Training Farm – Collaborative efforts with the Eastern Caribbean Institute of Agriculture and Forestry (ECIAF) in Trinidad and Tobago. Involved preparation of business plans for the following: greenhouse vegetable production and small stock production (rabbits and goats). 2009 to 2010 – Completed.

**Singh-Knights, D.,** (2008-2011). The Impact of Increasing Food Prices on Food Security in Trinidad and Tobago – Forecasting Food Production and Prices and Estimating Marketing Margins. Collaborative effort with University of the West Indies and Government of Trinidad and Tobago. 2008 to 2011 – Completed.

Knights, M., and **D. Singh-Knights** (2009-2010). Assessing the Market Demand for Goats' Milk in Trinidad and Tobago. Collaborative effort with University of the West Indies and Government of Trinidad and Tobago. 2009 to 2010 – Completed.

**Singh-Knights, D.,** and J. Joseph (2008-2010). Promoting Community Development through Ecotourism: The Case of Trinidad and Tobago. Collaborative effort with University of the West Indies and Government of Trinidad and Tobago. 2008 to 2010 – Completed.

**Singh-Knights, D.,** and M. Knights (2008-2010). Assessing the Current Status and Future Potential of Meat Goat Production in West Virginia. Collaborative effort with University of the West Indies and Government of Trinidad and Tobago. 2008 to 2010 – Completed.

Knights, M., and **D. Singh-Knights** (2007-2010). Economic Analysis of Enhanced Milk Production through Improved Reproductive Management of Cattle and Buffaloes. Collaborative effort with University of the West Indies and Government of Trinidad and Tobago. 2007 to 2010 - Completed.

Palmer, D., and **D. Singh-Knights** (2006-2010). Forecasting Sugarcane Production in Jamaica Using a Vector Autoregressive Framework. Collaborative effort with University of the West Indies and Government of Jamaica. 2007 to 2010- Completed Antigua and Barbuda Agriculture and Tourism Linkages and Agri-Tourism. Collaborative effort with University of the West Indies and Government of Antigua and Barbuda. 2006 to 2010 – Completed.

## Dissertations, Theses and Non-Thesis Graduate Students

- Oluwatoyin Adebisi (May 2021) – Ph.D. Candidate in WVU, DCANRD - TBD
- Doug Arbogast (May. 2018) – Ph.D. Candidate in WVU, DCANRD – “*An Analysis of Destination Competitiveness Factors Among Tourism Regions in West Virginia*”. In Progress.

- Hazel Patterson Andrews (Dec. 2010) – PhD. in Agricultural Economics, UWI - *“Effect of Industrialization on the Profitability of Crop Production in Trinidad and Tobago”*. (Committee Member)
- Jennifer L. Poling (Aug. 2008) – PhD. in Resource Management and Sustainable Development, WVU, DCANRD – *“An Examination of Liability, Duty, and Disclaimers for the Pleasure Horse Industry in West Virginia and Other States.”* (Committee Member)

### **MPhil. Student –**

- Donald Palmer (Aug. 2010) – MPhil in agricultural Economics, UWI - *“Forecasting the Productivity of Sugar Cane Using a Vector Autoregressive Framework.”* (Committee Member)

### **MSc. (Thesis) Students -**

- Richard Rampersaud (Dec. 2014) – MSc. In Agricultural Economics, UWI – *“An Investigation of Factors Influencing Consumption of and the Willingness to Pay for Goat’s Milk in Trinidad and Tobago”*. (Committee Member)
- Kellie D’Souza (Aug. 2013) – MSc. in Animal Sciences, WVU, DCANRD – *“Effects of a Gonadotropin Mixture on Reproductive Success in Progesterone-Treated Non-Lactating Ewes”*. (Committee Member)
- August 2010. Jeanelle Joseph – MSc. in Agricultural Economics, UWI - *“Promoting Community Development through Ecotourism: The Case of Trinidad and Tobago.”* (Supervisor)
- December 2010. Asisha Patterson – MSc. in Agricultural Economics, UWI - *“The Impact of Increasing Food Prices on Food Security – Forecasting Food Production and Prices and Estimating Marketing Margins in Selected Caribbean Countries”* (Supervisor)
- December 2010. Faraad Hosein – MSc. in Agricultural Economics, UWI- *“Assessment of Consumer Response to an Invasive Pest and Disease of Food Animals: The Case of the Tropical Bont Tick in St. Kitts and Nevis.”* (Committee Member)

### **MS Students (Non-Thesis) Students**

- Esther O. Obidakum (May 2019). M.S in Agriculture, WVU DCANRD (Major Advisor – In Progress)
- Dominic Oshoba (May 2019). M.S in Agriculture, WVU DCANRD (Major Advisor – In Progress)
- Ashleigh Nebers (August 2018). M.S. in Agriculture, WVU ANS (Committee Member – Completed)
- Folasade Adedipe (May 2017). M.S in Agriculture, WVU DCANRD (Major Advisor – Completed)
- Happiness Osuma (Dec 2016). M.S in Agriculture, WVU DCANRD (Committee Member)
- Oluwafunke Rebecca Abeleje (Dec 2016). M.S in Agriculture, WVU DCANRD (Committee Member)
- Mary Cook (Dec 2016). M.S in Agriculture, WVU DCANRD (Major Advisor)
- Leons Kabongo (May 2016). M.S in Agriculture, WVU DCANRD (Major Advisor)
- Bolarinwa Ajanaku (May 2016). M.S in Agriculture, WVU DCANRD (Major Advisor)

- Emile Meade (Dec 2015). M.S in Agriculture, WVU DCANRD (Committee Member)
- Jessica Smith (Aug 2015). M.S in Agriculture WVU DCANRD (Committee Member)
- Grant Boudreau (Aug 2015). M.S in Agriculture, WVU DCANRD (Committee Member)
- Mariah Hatton (Aug 2015). M.S in Agriculture, WVU DCANRD (Committee Member).
- Lisa Robinson (Aug 2015). M.S in Agriculture, WVU DCANRD (Committee Member)
- Cindy Martel (Aug 2013). MS in Agriculture, WVU DCANRD (Major Advisor).
- Emily Purdue (Aug 2013). MS in Agriculture, WVU DCANRD (Committee Member).
- Emily Purdue (May, 2012). M.S in Agriculture, WVU DCANRD (Committee Member)
- Jacklyn Hoover (May, 2012). M.S in Agriculture, WVU DCANRD (Committee Member)
- Heather Clower (Octo, 2012). M.S in Agriculture, WVU DCANRD (Committee Member)
- Justin Rambolt (Nov, 2012). M.S in Agriculture, WVU DCANRD (Committee Member)
- Sara Hare (Mar, 2011). M.S in Agriculture, WVU DCANRD (Committee Member)
- Marth Walker (Mar, 2011). M.S in Agriculture, WVU DCANRD (Committee Member)
- Katie Fitzsimmons (May 2005). M.S in Agriculture, WVU DCANRD (Committee Member)
- Andrew Sutton (May 2005). M.S in Agriculture, WVU DCANRD (Committee Member)
- Andrea Young (May 2005). M.S in Agriculture, WVU DCANRD (Committee Member)
- Todd Turner (May 2004). M.S in Agriculture, WVU DCANRD (Committee Member)
- Ryan Vaughn (May 2004). M.S in Agriculture, WVU DCANRD (Committee Member)
- Aaron Berry (May 2004). M.S in Agriculture, WVU DCANRD (Committee Member)

## Professional Affiliations

- Agriculture and Natural Resources Extension Professionals (ANREP) – 2015 to Present, Member
- North American Farm Direct Marketing Association (NAFDA) – 2017, Member.
- National Extension Tourism (NET) – 2016 - Member
- Joint Council of Extension Professionals (JCEP) – 2016 - Member
- International Farm Management Congress (IFMC) - 2015 to Present, Member
- National Agritourism Professional Association (NAPA) – 2014 to Present
- Caribbean Academy of Science (CAS) – 2008 to Present, Member
- Caribbean Agro-Economic Society (CAES) – 2006 to Present, Member
- Association of Professional Agricultural Scientists of Trinidad and Tobago (APASTT) – 2006 to Present, Member
- American Agricultural Economics Association (AAEA) – 1998 to Present, Member

- Northeastern Agricultural Resource Economics Association (NAREA) – 1998 to Present, Member
- Southern Agricultural Economics Association (SAEA) – 1998 to Present, Member

## **Honors, Awards and Service**

- Keynote Speaker, WV Third Annual Agribusiness Conference, Martinsburg, WV
- WVU Extension's New Program Excellence Award 2016 – The WV Agritourism Initiative
- WV Farmers Market Association "Partner of the Year" – 2015
- NACAA Search for Excellence, Farm & Ranch Financial Management National Finalists of Search for Excellence in the category of Farm & Ranch Financial Management (WV Annie's Project) - 2015.
- Faculty Representative Speaker – DCANRD Ground-breaking Ceremony – 9/2013.
- Keynote Speaker, WV Urban Agriculture Conference – 2015.
- Scholar, Regional Agriculture and Food Systems, Northeast Regional Center for rural Development (Northeast Regional Center for Rural development - NERCRD) – 2014-2016
- WVUES Excellence in Diversity Programming Award, 2012 (WV Annie's Project)
- Second place winner, West Virginia University's College of Agriculture, Forestry and Consumer Sciences' Graduate Paper Competition, April 2000.
- Inducted into Gamma Sigma Delta (Honor Society of Agriculture), 2000, West Virginia University Chapter.
- Recipient of the Organization of the American States Fellowship to the Graduate Studies Program, West Virginia University, Division of Resource Management, 1998 to 2000.
- Trinidad and Tobago Government Scholarship to the Eastern Caribbean Institute of Agriculture and Forestry, 1987 to 1989.

## **Committees and Positions**

- Chair, WVU Extension Service Program Priority Planning Committee
- Member, WVU Division of Resource Economic and Management Undergraduate Planning Committee
- Member, WVU DCANRD Committee for Diversity and Inclusion
- Member, WVU WBC (Women's Business Center) Advisory Board
- WV Representative, Northeast Cover Crop Council

- Chair, NESRAE Professional Development Executive Committee.
- Faculty Mentor, WVU Young Innovators Program, 2015 to Present
- NESARE State Coordinator for WVU, Jan 2011 to Present.
- State Coordinator – WV Annie’s Project, WV Agritourism Initiative, WV Food Safety Training Team
- Contributing Faculty - West Virginia Small Ruminant Project (WVSRP) (2010-Present) <http://sheepandgoats.wvu.edu/>
- Planning Committee, National Extension Risk Management Conference, 2016-2017
- National Extension Tourism (NET) Design Team – 2016 – Member
- Northeast Cover Crop Council, WVU Representative, 2016
- Reviewer, Agribusiness Section of *HortScience*, 2012 to Present.
- AFA (Agriculture Future of America) Faculty mentor and Liaison
- Faculty Mentor, WVU Chancellor’s Scholars Program (Formerly Minority Doctoral Teaching Fellows Program), 2010 – Present
- Reviewer, Agribusiness Section of *Tropical Agriculture*, 2009 to 2012
- Member of the Government of Trinidad and Tobago Inter-Ministerial Taskforce on Food Prices and Efficient Land Use Management Strategies, (2007-2009).
- Member of the Caribbean Small Ruminant Net Work (CASRUNET) Planning Committee.
- Reviewer, Agribusiness Section of *Journal of Agricultural and Applied Economics*, 2006-2008
- Judge, Graduate Student Case Study Competition (American Agricultural Economics Association), 2006.
- Member, Selected Papers and Symposia Committee, North-Eastern Agricultural Economics Association (NAREA), 2006 to 2007
- Member, Graduate Students Selection Committee, Division of Resource Management, West Virginia University, 2005 to 2006.
- Chair, Technology Committee, Division of Resource Management, West Virginia University, 2006 to 2007.
- Member of the Social Justice Visiting Committee of West Virginia University, Morgantown, WV, 2003 to 2004.
- Member of the Social Justice Advisory Council of Potomac State College of West Virginia University, 2003 to 2005.
- Member of the Transition Committee for Academic Programs between West Virginia University and Potomac State College of West Virginia University, 2003 to 2004.
- Member of the Assessment Council for Academic Programs at Potomac State College of West Virginia University, 2003 to 2004.

- Chair of the Graduate Student Council, West Virginia University, 2001 to 2002.
- President of the Graduate Resource Economics Club, West Virginia University, 2000 to 2001.
- Vice-President of the Graduate Resource Economics Club, West Virginia University, 1999 to 2000.



## Grants and Contracts

<b>Total Grant Funds Applied for since 2010- \$4,981,000; Total Grants Funded since 2010 - \$2,129,000; Pending for 2016 - \$600,000</b>					
<b>NAME</b>	<b>AGENCY</b>	<b>ROLE</b>	<b>DURATION</b>	<b>STATUS</b>	<b>FUNDING</b>
West Virginia Economic Development Initiative in Cider Apple and Cider Production	Claude Worthington Benedum Foundation	Co-PI	2019-2021	Pending	\$160,000
Supporting the Hard Cider Apple Production in West Virginia through Education, Research and Market Analysis	NESARE	Co-PI	2019-2022	Pending	\$198,222
Determinants And Impacts Of Agritourism Activities: The Roles Of Agglomeration And Networks	NIFA AFRI	Co-PI	2019-2022	Pending	\$223,000
Food Safety - Sub-Award – WVDA's FSA FSMA Cooperative Agreement	WVDA	PI	2018-2019	Funded	\$148,462
The CHIP Project: Developing and implementing food safety education and outreach for Commercial-Kitchens, Home-Kitchens, Incubator-Kitchens and Food Producers in West Virginia	USDA	Co-PI	2018-2020	Funded	\$152,000
Prescribed Grazing Management Training and Outreach to Improve Livestock Production on Grasslands In WV	NRCS	Co-PI	2018-2019	Funded	\$98,255
WV Annie's Project – Risk Management and Business Planning Training	Farm Credit	PI	2018-2019	Funded	\$3,000
Critical Success Factors for Small and Medium-Sized Farms with Direct Sales and Agritourism (Applicant – University of Vermont)	NIFA – AFRI CARE	CO-PI	2018-2020	Funded	\$230,00 (WV Sub-award \$9,193)
Enhancing Social Agripreneurs Viability and Profitability through Education, Agribusiness 'Clustering' Partnerships and Networking	USDA-SARE	PI	2017-2020	FUNDED – Just Starting	\$133,500

Opportunities					
Expanding the Maple Industry in West Virginia and the Central Appalachian Region through Research and Education	USDA - Acer Access and Development Program (Acer)	Partner	2017-2020	FUNDED – Just Starting	\$203,716
WV Food Safety Training 2015-2018 (No-Cost Extension)	Claude Worthington Benedum Foundation	PI	2015-2018	FUNDED – In progress	\$65,000
Expanding the WV Agritourism Initiative in WV through Cluster Development, Education and Marketing	USDA – AMS - FMPP	PI	2017-2020	NOT-FUNDED	\$301,000
WV SARE Fellows Tour Program	USDA-SARE	PI	2016	FUNDED – Completed	\$11,616
West Virginia University Women's Business Center	US-SBA	CO-PI	2016-2017	FUNDED – In Progress	\$225,000
West Virginia 2016 NESARE Cover Crop Initiative	USDA-SARE	CO-PI	2016-2018	FUNDED – In progress	\$11,107
USDA-AMSTA Farmers Market and Local Foods Promotion Grant Writing Workshops	USDA-AMSTA	PI	2016	FUNDED - Completed	\$4,940
MEND A GAP IN WV: Mentoring and Educating New and Developing Agripreneurs and Growing Agribusiness Profitability in West Virginia - Resubmission	USDA-NIFA	PI	2016-2019	NOT-FUNDED	\$630,000
Appraisal of Market Values for Real Property and Evaluation of the Economic Impacts of Mineral Rights and Leasing on Agricultural Land Values in WV	USDA-NRCS	CO-PI	2015-2016	FUNDED – Completed	\$45,000
Bridging the GAPS - WV Food Safety Training for Small and Mid-Sized Farms	USDA-NERME WVDA - WVSCBG	PI Collaborator	2016-2017 2016-2018	FUNDED – Completed FUNDED – In	\$32,000 \$32,000

				progress	
Managing Marketing and Legal Risks Associated with Direct Markets for Local Foods in West Virginia – WV Market Ready Program	USDA-NERME WVDA - WVSCBG	PI Collaborator	2016-2017 2016-2018	FUNDED – Completed FUNDED – in Progress	\$35,500 \$4,500
WV Food Safety Training 2015-2018	Benedum Found'n USDA - WVDA	PI Co-PI (Sub-Award)	2015-2018 2016-2021	FUNDED – In progress FUNDED - In Progress	\$95,000 \$600,000
Beginning with the End in Mind – Whole-Farm Profit Management for WV Specialty Crops Producers	WVDA	PI	2015-2017	FUNDED – In progress	\$10,000
Greenbrier Valley Agritourism Initiative - - Managing Risks for Improved Income Diversification	WVU Internal Grant	PI	2015-2016	FUNDED - Completed	\$4,585
Economic Feasibility of WV Small-Scale, Pastured Poultry Enterprises	WVU Internal Grant	PI	2015-2016	FUNDED – IN Progress	\$4,000
Sustainable Agriculture Needs Assessment Research Study	WVU Internal Grant	PI	2014-2016	FUNDED – IN Progress	\$6,000
Statewide Assessment of Agritourism's Economic Impact for West Virginia Communities	WVU Internal Grant	PI	2015-2016	FUNDED – IN Progress	\$12,000
Increasing Producers' Production and Marketing Efficiency through Understanding WV Livestock (Small Ruminants) Price Signals	WVU Internal Grant	PI	2014-2016	FUNDED – IN Progress	\$6,000
WVSCBG Project Funded Obligations under other Project Partners - The Richwood Pantry Farmers Market; West Virginia Department of Agriculture Food Safety; and Mid-Atlantic Maple Camp	WVDA	CO-PI	2015-2018	FUNDED – In Progress	\$22,000

Enhancing Farm Viability and Profitability through Improved Risk Management.” 2014-2017 NESARE State Professional Development Program for WVU	USDA - NESARE	PI -	2015-2017	FUNDED – In progress	\$133,000
MEND A GAP IN WV: Mentoring and Educating New and Developing Agripreneurs and Growing Agribusiness Profitability in West Virginia - Resubmission	USDA - NIFA	PI	2015-2018	NOT-FUNDED	\$630,000
Enhancing Productivity of Sheep through Greater Access and Use of Genetically Evaluated Stock	USDA - NESARE	PI	2014-2017	FUNDED – In progress	\$15,000
Enhancing Productivity of Ewe Lambs Through Use of Reproductive Management	USDA - NESARE	Co-PI	2014-2017	FUNDED – In progress	\$134,000
Growing Agritourism and Farm-Based Education in West Virginia - Managing Risks for Improved Income Diversification	USDA - NERME	PI	2014-2015	FUNDED – Completed	\$25,000
Record-Keeping and Financial Analysis Made Simple - A Risk Management Approach	USDA-NERME	PI	2014-2016	NOT FUNDED	\$24,000
WV Annie's Project II - Building on Risk Management Improvements for Female Agripreneurs in WV	USDA – NERME	PI	2014-2015	FUNDED - Completed	\$13,000
WV Annie’s Project II– Enhancing Farm Viability through Improved Risk Management for Female Agripreneurs in WV	WVSCBG	Co-PI	2014-2016	FUNDED - Completed	\$28,000
Effect of Continuous Suckling/ “Ewe-Rearing” Strategy by Lamb Producers	USDA - NESARE	Co-PI	2013-2015	FUNDED - Completed	\$15,000
Scheduling Vegetable Production in West Virginia High Tunnels for Sustainable Production and Maximum Profits	WVDA – Specialty Crops Blok grant	Co-PI	2014-2017	FUNDED – C	\$16,000

MEND A GAP IN WV: Mentoring and Educating New and Developing Agripreneurs and Growing Agribusiness Profitability in West Virginia	USDA - BFRDP	PI	2014-2017	NOT-FUNDED	\$630,000
Mentoring and Educating New Agripreneurs and Growing Agribusiness Profitability in West Virginia	USDA-NERME	PI	2015-2016	NOT-FUNDED	\$33,000
Performance Testing of Replacement Ewe Lambs to Enhance Feed Efficiency, Reproduction, Growth and in the Flock	National Sheep Ind.	Co-PI	2015-2016	NOT-FUNDED	\$52,000
“Use of Timed Artificial Insemination to Increase Access to and Reduce Cost of Acquiring Improved Goat Genetics” – NESARE Partnership Grant Submitted 07-14 – 06-16; Funding Requested \$14,812	USDA - SARE	Co-PI	2014-2016	NOT-FUNDED	\$14,812
Statewide Assessment of Agritourism’s Economic Impact for West Virginia Communities	USDA - FMIP	PI	2013-2015	NOT-FUNDED	\$65,779
Improving Soil Health and Nutrient Cycling with Cover Crops for Beginning Seasonal High Tunnel Specialty Crop Producers	NRCS - CIG	Co-PI	2012-2015	FUNDED - Completed	\$82,900
Annie’s Project – Enhancing Farm Viability through Improved Risk Management for Female Agripreneurs in WV	USDA - NCRME	PI	2012-2013	FUNDED - Completed	\$39,000
Professional Development for Agriculture Service Providers in Pollution Discharge Elimination System	USDA - NESARE	PI	2012-2015	FUNDED - Completed	\$27,000
Appraisal of Real Property Market Value for the NRCS Grassland Reserve Program (GRP)	NRCS	PI	2011-2012	FUNDED - Completed	\$71,000
Appraisal of Real Property Market Value for the NRCS Wetland Reserve Program (WRP)	NRCS	PI	2011-2013	FUNDED - Completed	\$110,000

Sustaining Family Farms and their Communities by Building New Capacity to Enter Locally Accessible Higher-Value Markets	USDA - NESARE	PI	2011-2014	FUNDED - Completed	\$225,000
Supporting and Expanding the Community of Sustainable Agriculture in West Virginia and the Western Mountain of Maryland – Year 3	USDA - NESARE	PI	2011	FUNDED - Completed	\$75,000
Effect of continuous suckling/ 'ewe-rearing' on growth and level of parasitism of lambs and on productivity and profitability of lamb operations	USDA - NESARE	Co-PI	2011-2014	FUNDED - Completed	\$15,000
Increasing Adoption of Out-of-Season Breeding to Enhance Profitability of Sheep Producers in West Virginia	USDA - NESARE	Co-PI	2011-2014	FUNDED - Completed	\$15,000
Increased Efficiency of Sheep Production – WV Small Ruminant Project	HATCH	Co-PI	2011-2015	FUNDED - Completed	\$85,000
Economic Development by a Strategic Shift in Breeding Time in Ewe Flocks (with P. E. Lewis and others)	WV Legislature	Co-PI	1998 - 2014	FUNDED - Completed	\$344,000
Collaborative Development of Undergraduate Distance Education Courses in "Green" Entrepreneurship	USDA - CSREES	PI	2013-2016	NOT-FUNDED	\$273,000
Economic Analysis of Enhanced Milk Production through Improved Reproductive Management of Cattle and Buffaloes	UWI, Trinidad and Tobago	PI	2007-2010	FUNDED - Completed	\$78,000
WV Meat Goats Information Survey	WV Small Ruminant Project	PI	2005-2006	FUNDED - Completed	\$10,000
Patterns of Welfare and Food Assistance Participation: Implications in Ec. Dev. and Poverty Alleviation in Appalachia	HATCH	PI	2005-2009	FUNDED - Completed	\$135,000

WV Sheep Management Marketing Project	USDA - FSMIP	Co-PI	2001-2003	FUNDED - Completed	\$300,000
Teaching Rural Enterprise Development (ARE 421-7D1) as a Web-Based Course: Integrating Available Instructional Technology to Enhance Learning Outcomes	WVU - Internal Grant	PI	2006	FUNDED - Completed	\$5,000