

Salvatore S. Mangiafico

Curriculum vitae

Title and Address:

Environmental and Resource Management Agent II
(Associate Professor)
Rutgers Cooperative Extension of Cumberland County
291 Morton Ave.
Millville, NJ 08332

Contact Information:

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EDUCATION

Highest Earned Degree

Ph.D., Plant Science—Soil Science, 2005, University of Connecticut
Area of research: Nitrogen leaching and nitrogen management on turfgrass.

Dissertation

Nitrogen Management of Turfgrass Utilizing Reflectance Meters, Anion Exchange Membranes, and Timing of Fall Fertilization, 2005, University of Connecticut, under direction of Karl Guillard.

Other Earned Degrees, Graduate and Undergraduate

B.A. Philosophy, 1996, Alfred University
B.A. Environmental Studies, 1996, Alfred University

EMPLOYMENT HISTORY

Positions Held

2015–ongoing. County Environmental and Resource Management Agent II (Associate Professor). My responsibilities are to provide leadership and support to develop educational programming and research appropriate to the needs of the clientele in natural resource management with a focus on water resource protection, watershed management, and environmental conservation in Salem and Cumberland Counties. These responsibilities include collaboration with municipalities, non-governmental organizations, and agricultural producers. Goals of this position include developing educational materials, implementing management practices, documenting results, garnering external resources through grants and contracts, and establishing a program which will lead to regional or national recognition.

2009–2015. County Environmental and Resource Management Agent III (Assistant Professor). Entered tenure stream July 1, 2009.

2006–2009. Post-doctoral scholar. University of California, Riverside, Departments of Environmental Sciences and Botany and Plant Sciences. Area of research: Nutrient and pesticide runoff from plant nursery, citrus, and avocado farms. Advisors: Jay Jianying Gan, Donald Merhaut, Julie Newman.

2000–2006. Research Specialist, Public Service Specialist, or Research Assistant. University of Connecticut, Department of Plant Science.

2000–2005. Teaching Assistant or Special Faculty. University of Connecticut, Department of Plant Science. Courses: Soils, Design and Analysis of Agricultural Experiments, Turfgrass Management

1999. Hydrological Technician, U.S. Geological Survey, Pittsburgh, PA.

1998. Forestry Aid. Lincoln National Forest, Carlsbad, NM.

TEACHING

Credit-bearing University Courses Taught

I developed original undergraduate courses in topic areas associated with my extension programming. I developed and wrote all curricula, syllabuses, and student assignment, and some course readings. Student evaluations averaged 4.21 / 5.00 for Teaching Effectiveness and 4.13 for Course Quality.

Semester	Course Title	Cred.	Responsibility	Sections taught	Total enrolled	Total student credit hours
Spring 2017	Quantitative Methods for Program Evaluation	3.0	100%	1	12	36
2014 – 2016	Topics: American Lawns and Turfgrass	1.5	100%	5	81	121
2013 – 2016	Topics: Introduction to Sustainable Agriculture	1.0	100%	7	146	146
Totals:				13	239	303

Extension Teaching Formal Presentations

Formal presentations were delivered on the topics of water pollution prevention, water conservation, environmentally-friendly horticulture, stormwater management, and local water quality issues. These were delivered to students in a variety of clientele groups, including municipal Environmental Commissions, watershed associations, environmental organizations, agricultural producers, landscape professionals, volunteer groups such as Rutgers Master Gardeners, youth, and homeowners. Student evaluations averaged 4.17 / 5.00 for Teaching Effectiveness and 4.22 for Course Quality.

Dates	Total Events	Total Duration	Total Enrolled
07/2009 – 12/2016	135	122 hrs.	3268

PUBLICATIONS¹

Books Written or Edited

2016. S.S. Mangiafico. *Summary and Analysis of Extension Education Program Evaluation in R*. 642 pages. rcompanion.org/documents/RHandbookProgramEvaluation.pdf. As website: 71 webpages. rcompanion.org/handbook/. Role: idea and writing: 100%.

2015. S. S. Mangiafico. *An R Companion for the Handbook of Biological Statistics*. 279 pages. rcompanion.org/documents/RCompanionBioStatistics.pdf. As website: 48 webpages. rcompanion.org/rcompanion/. Role: idea and writing: 100%.

Chapters in Books or Monographs

¹ Author listed first is primary author, or author with the greatest contribution of content and writing. Presenting author is indicated with an asterisk (*).

2011. J. Newman, S. Mangiafico, D. Merhaut, L. Wu, J. Lu, D. Haver, B. Faber, and J. Gan. Mitigating Pesticide Runoff from Nurseries. pp. 77–94. In Goh, K.S., B.L. Bret, T.L. Potter, and J. Gan (eds.). *Pesticide Mitigation Strategies for Surface Water Quality*. Washington, D.C.: American Chemical Society. pubs.acs.org/isbn/9780841226562. Role: idea and writing: 40%.

Articles in Refereed Journals

2016. S.S. Mangiafico, K. Bell, and N. Hetzell. Fecal Coliform Concentrations in the Upper Cohansey River Watershed Predicted by Air Temperature, Discharge, and Land Use. *Journal of Extension* 54(3): 3RIB1. www.joe.org/joe/2016june/rb1.php. Role: idea and writing: 80%.

2015. S. Mangiafico. Non-linear Presentations with Sozi and Prezi. *Journal of the National Association of County Agricultural Agents* 8(1). www.nacaa.com/journal/index.php?jid=477. Role: idea and writing: 100%.

2015. P.R. Rector, P.J. Nitzsche, and S.S. Mangiafico. Temperature and Herbicide Impacts on Germination of Water Chestnut Seeds. *Journal of Aquatic Plant Management* 53:105–112. Role: idea and writing: 20%.

2014. X. Geng, Guillard, K., Mangiafico, S., and Morris, T. Defining Sufficiency Levels of Nitrogen in Cool-Season Turfgrass Lawns Using Macy's Concept. *Crop Science* 54:1844–1858. Role: idea and writing: 10%.

2013. S.S. Mangiafico. Cate-Nelson Analysis for Bivariate Data Using R-project. *Journal of Extension* 51(5), article 5TOT1. www.joe.org/joe/2013october/tt1.php. Role: idea and writing: 100%.

2013. S.S. Mangiafico. Using R-project for Free Statistical Analysis in Extension Research. *Journal of Extension* 51(3), article 3TOT3. www.joe.org/joe/2013june/tt3.php. Role: idea and writing: 100%.

2013. M. Bakacs, M. Haberland, S.S. Mangiafico, A. Winquist, C.C. Obropta, A. Boyajian A., and S. Mellor. Rain Barrels: A Catalyst for Change? *Journal of Extension* 51(3), article 3RIB6. www.joe.org/joe/2013june/rb6.php. Role: idea and writing: 15%.

2012. S.S. Mangiafico. Six Months in Social Media: the Life History of a Natural Resources Blog in New Jersey. *Journal of the National Association of County Agricultural Agents* 5(2). www.nacaa.com/journal/index.php?jid=190. Role: idea and writing: 100%.

2012. S.S. Mangiafico, D.J. Merhaut, J. Newman, H. Ewing, and B. Faber. Nutrient Runoff Uptake Potential and Growth for Three U.S. Native Grasses and Tall Fescue. *Journal of Environmental Horticulture* 30(3), 125–131. Role: idea and writing: 80%.

2012. M. Haberland, S. Goodrow, C. Magee, and S. Mangiafico. Improving Dry Detention Basins in New Jersey to Support Green Infrastructure Goals. *Journal of the National Association of County Agricultural Agents* 5(1). www.nacaa.com/journal/index.php?jid=137. Role: idea and writing: 20%.

2012. S.S. Mangiafico, C.C. Obropta, and E. Rossi-Griffin. Demographic Factors Influence Environmental Values: A Lawn Care Survey of Homeowners in New Jersey. *Journal of Extension* 50:1, Article 1RIB6. www.joe.org/joe/2012february/rb6.php. Role: idea and writing: 80%.

2011. S.S. Mangiafico, C.C. Obropta, and E. Rossi-Griffin. A Lawn Care Education Program to Address Water Conservation and Water Pollution Prevention in New Jersey. *Journal of the National Association of County Agricultural Agents* 4 (2). www.nacaa.com/journal/index.php?jid=108. Role: idea and writing: 80%.

2010. S.S. Mangiafico, J.P. Newman, D.J. Merhaut, and B. Faber. University of California Program to Evaluate Water Quality Management Practices at Cooperating Agricultural Sites. *Journal of Extension* 48(2), article 2IAW3. www.joe.org/joe/2010april/iw3.php. Role: idea and writing: 80%.

2010. S.S. Mangiafico, J. Newman, M. Mochizuki, D. Zurawski, D.J. Merhaut, and B. Faber. Nurseries Surveyed in Southern California Adopt Best Practices for Water Quality. *California Agriculture*. 64:26–30. ucanr.org/repository/CAO/fileaccess.cfm?article=73586&p=VUQYZZ&filetip=pdf. Role: idea and writing: 80%.

2009. T.J. Barry, K. Guillard, and S.S. Mangiafico. Relationships between Soil Nitrate Desorbed from Anion-exchange Membranes, Canopy Reflectance, and Nitrate Leaching Losses from Cool-season Lawn Turf. *International Turfgrass Society Research Journal* 11:933–948. Abstract: salem.njaes.rutgers.edu/nre/documents/2009-mangiafico-ITSRJ-anion-exchange-turf-N.pdf. Role: idea and writing: 15%.
2009. S.S. Mangiafico, J. Newman, D.J. Merhaut, J. Gan, B. Faber, and L. Wu. Nutrients and Pesticides in Stormwater Runoff and Soil Water in Production Nurseries and Citrus and Avocado Groves in California. *HortTechnology* 19:360–367. horttech.ashspublications.org/cgi/content/abstract/19/2/360. Role: idea and writing: 80%.
2008. S.S. Mangiafico, J. Newman, D. Merhaut, J. Gan, L. Wu, J. Lu, B. Faber, and R. Evans. Detention and recycling basins for managing nutrient and pesticide runoff from nurseries. *HortScience* 43:393–398. hortsci.ashspublications.org/cgi/content/abstract/43/2/393. Role: idea and writing: 80%.
2007. S.S. Mangiafico and K. Guillard. Cool-season turfgrass color and growth calibrated to leaf nitrogen. *Crop Science* 47:1217–1224. crop.scijournals.org/cgi/reprint/47/3/1217.pdf. Role: idea and writing: 80%.
2007. S.S. Mangiafico and K. Guillard. Nitrate leaching from Kentucky bluegrass soil columns predicted with anion exchange membranes. *Soil Science Society of America Journal* 71:210–224. soil.scijournals.org/cgi/reprint/71/1/219.pdf. Role: idea and writing: 80%.
2006. S.S. Mangiafico and K. Guillard. Fall fertilization timing effects on nitrate leaching and turfgrass quality. *Journal of Environmental Quality* 35:163–171. jeq.scijournals.org/cgi/reprint/35/1/163.pdf. Role: idea and writing: 80%.
2006. S.S. Mangiafico and K. Guillard. Anion exchange membrane soil nitrate predicts turfgrass color and yield. *Crop Science* 46:569–577. crop.scijournals.org/cgi/reprint/46/2/569.pdf. Role: idea and writing: 80%.
2005. S.S. Mangiafico and K. Guillard. Turfgrass reflectance measurements, chlorophyll, and soil nitrate desorbed from anion exchange membranes. *Crop Science* 45:259–265. crop.scijournals.org/cgi/reprint/45/1/259.pdf. Role: idea and writing: 80%.

Published Abstracts (Oral or Poster Presentations)

2016. S. Mangiafico.* Addressing Fecal Coliform Bacteria at a Public Swimming Beach in a Small Urban Community. *Conference Proceedings Northeast Regional Urban Extension Conference 2016*.
2016. S. Mangiafico.* Initial Assessment of E. coli and Dissolved Oxygen in a Recently Re-filled Lake. *National Association of County Agricultural Agents Proceedings 101st Annual Meeting and Professional Improvement Conference*, page 153. www.nacaa.com/2016/2016 Proceedings lr.pdf.
2016. S. Mangiafico. A Companion for the Handbook of Biological Statistics Uses R for Free Statistical Analysis. *National Association of County Agricultural Agents Proceedings 101st Annual Meeting and Professional Improvement Conference*. www.nacaa.com/2016/2016 Proceedings lr.pdf.
2016. Mangiafico, S.* Use of Coliscan Easygel Petri Dishes for Monitoring of E. coli and Fecal Coliform Bacteria in a Recently Re-filled Lake. *National Association of County Agricultural Agents Proceedings 101st Annual Meeting and Professional Improvement Conference*. www.nacaa.com/2016/2016 Proceedings lr.pdf.
2016. S. Mangiafico*. Fecal Bacteria and Dissolved Oxygen in a Recently Aerated Lake in Bridgeton, NJ. *2016 Proceedings 1st Annual Extension Program Updates at the Agricultural Agents' Association of New Jersey, Inc. Annual Meeting*, page 11. sites.google.com/site/aaanjinc/meeting-minutes/proceedings.
2016. S. Mangiafico*. Statistics for free: An R Handbook of Program Evaluation and Companion for Biological Statistics. *2016 Proceedings 1st Annual Extension Program Updates at the Agricultural Agents' Association of New Jersey, Inc. Annual Meeting*, page 4. sites.google.com/site/aaanjinc/meeting-minutes/proceedings.

2014. Mangiafico, S.*, K. Bell, and N. Hetzell. Watershed Partnership Determines Sources of Fecal Contamination in the Upper Cohansey Watershed. *National Association of County Agricultural Agents Proceedings 99th Annual Meeting and Professional Improvement Conference*, p. 164. www.nacaa.com/ampic/2014/2014%20Proceedings.pdf#page=166.

2014. Mangiafico, S.* Designing Interactive Non-linear Presentations with Sozi. *National Association of County Agricultural Agents Proceedings 99th Annual Meeting and Professional Improvement Conference*, p. 170–171. www.nacaa.com/ampic/2014/2014%20Proceedings.pdf#page=172.

2013. S.S. Mangiafico*. One Year in the Life of a Natural Resources Blog in New Jersey. (Poster). *National Association of County Agricultural Agents Proceedings 98th Annual Meeting and Professional Improvement Conference*, p. 29. www.nacaa.com/ampic/2013/2013%20Proceedings.pdf.

2013. S.S. Mangiafico*. Using Web-based Services to Evaluate a Natural Resources Blog in New Jersey. (Oral). *National Association of County Agricultural Agents Proceedings 98th Annual Meeting and Professional Improvement Conference*, p. 140. www.nacaa.com/ampic/2013/2013%20Proceedings.pdf.

2012. S.S. Mangiafico*, C.C. Obropta, E. Rossi-Griffin. Lawn Care Education Program in New Jersey Addresses Water Conservation and Water Pollution Prevention. (Poster). *National Association of County Agricultural Agents Proceedings 97th Annual Meeting and Professional Improvement Conference*. www.nacaa.com/ampic/2012/2012%20Proceedings%20low%20res.pdf#page=83

2011. S.S. Mangiafico*, C.C. Obropta, E. Rossi-Griffin. Respondents to a Lawn Care Survey in New Jersey Cluster According to Environmental Values. (Poster). *2011 Land Grant/Sea Grant National Water Conference Online Proceedings*. www.usawaterquality.org/conferences/2011/abstracts_posters/Mangiafico.pdf

2011. M. Bakacs*; C. Muscio, M. Haberland, P. Rector, S. Mangiafico, J. Carleo, C. Obropta, S. Mellor and A. Boyajian. Engaging the Public in Water Resource Issues through Rainwater Harvesting. (Poster). *2011 Land Grant/Sea Grant National Water Conference Online Proceedings*. www.usawaterquality.org/conferences/2011/abstracts_posters/Bakacs.pdf

2010. S.S. Mangiafico*. Nutrient and Pesticide Runoff Potential from Production Nurseries: a Literature Review. (Poster). *2010 Land Grant and Sea Grant National Water Conference*. www.usawaterquality.org/conferences/2010/PDF%27s/Mangiafico.pdf

2010. S.S. Mangiafico*, D.J. Merhaut, J. Newman, H.D. Ewing, and B. Faber. (Poster). Nutrient Uptake Potential for Three U.S. Native Grasses and Tall Fescue. *HortScience* 45(8):S265.

2009. K. Guillard*, X. Geng, S.S. Mangiafico, K.L. Kopp, and T. J. Barry. Objective Testing Methods to Guide Nitrogen Fertilization of Turfgrass that Reduce Threats to Water Quality. (Oral). 2009 CSREES National Water Conference. St. Louis, MO. www.usawaterquality.org/conferences/2009/Abstracts/Ag_BMPs-oral/Guillard09.pdf

2008. S.S. Mangiafico, J.P. Newman*, M.J. Mochizuki, and D. Zurawski. Adoption of sustainable practices to protect and conserve water resources in container nurseries with greenhouse facilities. (Poster). *Acta Horticulturae* 797:367–372. www.actahort.org/books/797/797_52.htm.

2004. S.S. Mangiafico* and K. Guillard. Desorbed nitrate from anion exchange membranes as a predictor of nitrate leaching and turfgrass color. (Poster). *2004 Agronomy Abstracts*. American Society of Agronomy, Madison, WI. download.clib.psu.ac.th/datawebclib/e_resource/e_database/agronomy/2004/Browse/pdf/ACS/4678.pdf.

2004. S.S. Mangiafico* and K. Guillard. Use of anion exchange membranes to estimate turfgrass growth and quality. (Oral.) *2004 Agronomy Abstracts*. American Society of Agronomy, Madison, WI. Abstract: download.clib.psu.ac.th/datawebclib/e_resource/e_database/agronomy/2004/Browse/pdf/ACS/4598.pdf.

2003. S.S. Mangiafico* and K. Guillard. Nitrate leaching losses and turfgrass quality on fall fertilized Kentucky bluegrass. (Poster.) *2003 Agronomy Abstracts*. American Society of Agronomy, Madison, WI. download.clib.psu.ac.th/datawebclib/e_resource/e_database/agronomy/2003/Browse/pdf/ACS/C05-mangiafico798443-poster.pdf.

2003. S.S. Mangiafico* and K. Guillard. Relationships among turfgrass color, chlorophyll, and soil nitrate desorbed from AEMs. *2003 Agronomy Abstracts*. American Society of Agronomy, Madison, WI. download.clib.psu.ac.th/datawebclib/e_resource/e_database/agronomy/2003/Browse/pdf/ACS/C05-guillard295122-poster.pdf.

2001. S.S. Mangiafico* and K. Guillard. Nitrogen leaching from newly sodded turf. (Poster). *2001 Agronomy Abstracts*. American Society of Agronomy, Madison, WI. salem.njaes.rutgers.edu/nre/documents/2001-mangiafico-poster-ASA-newly-sodded-turf.pdf.

Other Presentations (Oral or Poster Presentations)

2014. S.S. Mangiafico*. Grading Rubric, Netiquette, and Presenting the Threaded Discussion on the Syllabus. (Oral). As part of panel: Facilitating Online Discussion. 5th Annual Online & Hybrid Learning Conference, Rutgers Continuing Studies, New Brunswick, NJ.

2014. P. Rector*, B. Barbour, M. Bakacs, S. Mangiafico, A. Rowe. Rutgers Environmental Steward Program. 9th Biennial Association of Natural Resource Extension Professionals Conference, Sacramento, CA.

2013. S.S. Mangiafico*. Rutgers Cooperative Extension Green Infrastructure Initiative. (Oral). As part of session: Rutgers Cooperative Extension Green Infrastructure Initiative with J. Bergstrom, C.C. Obropta, M. Bakacs, P. Rector, B. Pearson, A. Rowe. 2013 Mid-Atlantic Conference of the American Water Resources Association, West Windsor, NJ.

2011. M. Bakacs*, M. Haberland, S. Mangiafico, C. Obropta, S. Mellor, A. Boyajian. Residential Rainwater Harvesting: a First Step Towards Changing Behaviors. (Poster). 2011 National Urban Extension Conference, Des Moines, IA.

2007. J. Newman, D. Merhaut, S. Mangiafico*, D. Zurawski, A. Ellis, K. Gilbert, J. Gan, L. Wu, J. Lu, M. Mochizuki, R. Evans, B. Faber. University of California program to protect water quality in greenhouses and nurseries. (Poster). 2007 National Conference on Agriculture and the Environment. Pacific Grove, CA. salem.njaes.rutgers.edu/nre/documents/2007-mangiafico-poster-pacific-grove.pdf.

2007. S. Mangiafico*, J. Newman, K. Gilbert, D. Zurawski, A. Ellis, R. Evans, J. Gan, L. Wu, D. Merhaut, B. Faber. Assessing water conservation measures in production nurseries: recycling and irrigation system upgrades. (Poster). 2007 University of California Division of Agriculture and Natural Resources Water Resources Coordinating Conference. Woodland, CA. salem.njaes.rutgers.edu/nre/documents/2007-mangiafico-poster-DANR-water-conservation-nurseries.pdf.

2005. S.S. Mangiafico* and K. Guillard. Cate–Nelson models of turfgrass relative color and yield predict critical AEM soil NO₃–N. (Oral.) 2005 Northeastern Branch American Society of Agronomy and Soil Science Society of America Annual Meeting. Storrs, CT. salem.njaes.rutgers.edu/nre_documents/2005-mangiafico-poster-cate-nelson-turf.pdf.

EXTENSION PUBLICATIONS AND METHODS

Bulletins (peer-reviewed)

2014. S. Mangiafico. "Water Conservation." In Rector, P., Obropta, C.C., and Brown, J.R. (eds.), *Rutgers River Friendly Business Program Morris County Program Guidance*, E346b. Pp. 11–16. New Brunswick, NJ: Rutgers NJAES Cooperative Extension. Role: idea and writing: 100%. njaes.rutgers.edu/pubs/publication.asp?pid=E346b. 6 pages.

2012. S.S. Mangiafico, C.C. Obropta, E. Rossi-Griffin, and C. Higgins. *Landscaping for Water Conservation*, E341. New Brunswick, NJ: Rutgers NJAES Cooperative Extension. *Role: idea and writing: 80%*. njaes.rutgers.edu/pubs/publication.asp?pid=E341. 30 pages.

2011. S.S. Mangiafico. *Soils and Stormwater Management: Soil Quality, Compaction, and Residential Development*, E338. New Brunswick, NJ: Rutgers NJAES Cooperative Extension. *Role: idea and writing: 100%*. njaes.rutgers.edu/pubs/publication.asp?pid=E338. 6 pages.

Factsheets (peer-reviewed)

2012. M. Haberland, S.S. Mangiafico, and C. Obropta. *Improving Dry Detention Basins for Green Infrastructure Goals of Water Infiltration, Wildlife Habitat, and Reduction of Maintenance Costs*. New Brunswick, NJ: Rutgers NJAES Cooperative Extension. *Role: idea and writing: 40%*. njaes.rutgers.edu/pubs/fs1195/green-infrastructure.asp. 3 pages.

2011. S.S. Mangiafico and M. Haberland. *Pond and Lake Management Part VI: Using Barley Straw to Control Algae*, FS1171. New Brunswick, NJ: Rutgers NJAES Cooperative Extension. *Role: idea and writing: 80%*. njaes.rutgers.edu/pubs/publication.asp?pid=FS1171. 3 pages.

2011. S.S. Mangiafico, M. Bakacs, and A. Rowe. *What's Polluting our Rivers, Lakes, and Estuaries I: Phosphorus*, FS1170. New Brunswick, NJ: Rutgers NJAES Cooperative Extension. *Role: idea and writing: 70%*. njaes.rutgers.edu/pubs/publication.asp?pid=FS1170. 4 pages.

2011. S.S. Mangiafico and C.C. Obropta. *Rooftop Rainwater Harvesting for Plant Irrigation II: Water Quality and Horticultural Considerations*, FS1165. New Brunswick, NJ: Rutgers NJAES Cooperative Extension. *Role: idea and writing: 80%*. njaes.rutgers.edu/pubs/publication.asp?pid=FS1165. 4 pages.

2011. S.S. Mangiafico, C.C. Obropta, and E. Rossi-Griffin. *Rooftop Rainwater Harvesting for Plant Irrigation I: Design Concepts and Water Quantity*, FS1162. New Brunswick, NJ: Rutgers NJAES Cooperative Extension. *Role: idea and writing: 80%*. njaes.rutgers.edu/pubs/publication.asp?pid=FS1162. 5 pages.

Manuals and publications for agricultural clientele (not peer-reviewed)

2011. J. Johnson, S. Mangiafico, and C. Obropta. *Protecting Natural Resources at Field Nurseries: Sustainable Agricultural Management Practices for Soil, Water, Nutrient, and Pesticide Conservation*. Manual. *Role: idea: 33%, writing: 40%*. 32 pages. njaes.rutgers.edu/nursery/documents/Protecting Natural Resources at Field Nurseries.pdf

2009. J. Johnson and S. Mangiafico. *Soil, Water, Nutrient and Pesticide Agricultural Management Practices for Container Nurseries in the Upper Cohansey River Watershed*. Manual. *Role: idea: 0%, writing: 10%*. 35 pages. njaes.rutgers.edu/nursery/documents/Container Nursery AMP guide.pdf

2009. J. Johnson and S. Mangiafico. *Soil, Water, Nutrient and Pesticide Agricultural Management Practices for Field Nurseries in the Upper Cohansey River Watershed*. Manual. *Role: idea: 0%, writing: 10%*. 28 pages. njaes.rutgers.edu/nursery/documents/Field Nursery AMP guide.pdf

Conference proceedings for agricultural clientele (not peer-reviewed)

2013. S.S. Mangiafico. *Water Reuse in Agriculture: Reclaimed Water and Tailwater Recovery*. Pp. 71–72 in M.L. Infante–Casella (ed.). *2013 Proceedings 58th New Jersey Agricultural Convention and Trade Show*. Vegetable Growers' Association of New Jersey. Marlton, NJ. njveg.rutgers.edu/assets/pdfs/2013-AC-Proceedings.pdf#page=72

2010. S.S. Mangiafico. *Water issues: Water quality concerns for agribusiness*. Pp. 160–164 in Kline, W.L., and M.L. Infante–Casella (eds.). *2010 Proceedings 55th Atlantic Coast Agricultural Convention and Trade Show*. Vegetable Growers' Association of New Jersey. Marlton, NJ. salem.njaes.rutgers.edu/nre/documents/2010-mangiafico-VGANJ-water-issues-for-agribusiness.pdf

2010. S.S. Mangiafico. Evaluating water resources for farming. Pp. 146–150 in Kline, W.L., and M.L. Infante-Casella (eds.). *2010 Proceedings 55th Atlantic Coast Agricultural Convention and Trade Show*. Vegetable Growers' Association of New Jersey. Marlton, NJ. saalem.njaes.rutgers.edu/nre/documents/2010-mangiafico-VGANJ-water-resources-new-farmer.pdf

Newsletters

Green Knight newsletter. 2010 – ongoing. 27 issues. 450 clientele subscribers. saalem.njaes.rutgers.edu/greenknight/. Role: 50% of planning, design, solicitation of content, distribution.

Blogs and Social Media

Green Knight Newsletter blog. 2012 – ongoing. 440 posts, 8012 page views. Role: 90% of planning, design, solicitation of content, distribution, website design, and maintenance. The blog feed is mirrored on the Salem County Rutgers Cooperative Extension Natural Resources website (saalem.njaes.rutgers.edu/nre/), on Twitter (twitter.com/GreenKnightGnus), and my Facebook page for work (www.facebook.com/MangiaficoWork). These reach an additional 276 followers.

Sustainable Nursery Production blog. 2012 – ongoing. 132 posts, 2625 page views. Role: 90% of planning, design, solicitation of content, distribution, website design, and maintenance.

Websites

Rutgers Sustainable Nursery Production website. 2011 – ongoing. 6 webpages with 3023 total views, 8/1/2011 – 6/30/2014. njaes.rutgers.edu/nursery/. Role: 90%, with J. Johnson, C. Obropta, J. Rabin.

Salem County Cooperative Extension Natural Resources and the Environment website. 2009 – ongoing. 10 webpages with 21,074 total views, 8/1/2009 – 6/30/2014. saalem.njaes.rutgers.edu/nre/. Role: 100%.

SELECT SERVICE ACTIVITIES

Contributions to the Advancement of Extension Practice

MEMBERSHIP/OFFICES HELD IN SCHOLARLY AND PROFESSIONAL SOCIETIES

Organization	Date	Position
Agricultural Agents' Association of New Jersey (AAANJ)	5/2015 – 5/2016	President

Contributions to the Effective Operation of the University

CONTRIBUTIONS TO COUNTY GOVERNMENT AND SCHOOL

Position	Date	Notes
County Extension Department Head, Cumberland County	7/2016 – ongoing	

CONTRIBUTIONS TO SCHOOL

Position	Date	Notes
Member, NJAES Extension Teaching Curriculum Evaluation Committee	9/2016 – ongoing	

CONTRIBUTIONS TO DEPARTMENT

Positions Held in Department

Date	Position
5/2014 - 4/2014	Secretary

Membership and Positions Held on Departmental Committees

Date	Position	Department Committee
2015 - ongoing	Chair	Mentoring Committee for M. Melendez

Contributions to Society at Large

MEMBERSHIP AND POSITIONS HELD IN PUBLIC BODIES

Organization	Date	Position	Notes
Greenwich Township Planning/Zoning Board	2017 - ongoing	Alternate	
Greenwich Township Dike Advisory Committee	2015 - ongoing	Member	Advises Greenwich Township Committee on challenges and potential solutions concerning the town's dikes and other infrastructure.
Woodstown-Pilesgrove Joint Environmental Commission	2014	Chair	Environmental commissions are appointed by the municipality to advise the local government and planning board about relevant environmental issues, review development proposals, conduct educational programming, compile municipal environmental resource inventory, obtain grant funding, and implement improved practices.
	2012 - 2015	Member	

SERVICE ACTIVITIES TO PUBLIC BODIES

Presentations and Judging for Public Bodies

Date	Activity or Position	Organization	Number of Events
2013 - 2016	Judge for student posters	Oldmans Township Science Fair	4
2011 - 2016	Judge for team presentations	New Jersey Envirothon competition	6

AWARDS AND RECOGNITION

Teaching

2012. Communication Award: Computer Generated Graphics Presentation. Northeast Regional Finalist. National Association of County Agricultural Agents. For scripted slide set "Reducing Pesticides in Agricultural Runoff." *Role: 100%.*

Extension Practice

2016. Communication Award: Published Photo and Caption. Northeast Regional Winner. National Association of County Agricultural Agents. For "Vegetation in the Dry Bottom of Sunset Lake." *Role: 100%.*

2015. Outstanding Education Materials: Long Publication. National Award, Bronze Level. Association of Natural Resource Extension Professionals. For "Rutgers River Friendly for Business." *Role:* 5% with P. Rector, C. Obropta, J. Brown, M. Bakacs, B. Maslo, Rutgers Cooperative Extension.
2014. Outstanding Education Materials: Newsletter/Series of Articles. National Award, Gold Level. Association of Natural Resource Extension Professionals. For "Green Knight newsletter." *Role:* 50% with P. Rector, Rutgers Cooperative Extension Environmental and Resource Management Agent.
2014. Communication Award: Feature Story. Northeast Regional Finalist. National Association of County Agricultural Agents. For "This Rainy June, and the Importance of Soil Health in the Landscape." *Role:* 100%.
2014. Communication Award: Published Photo and Caption. Northeast Regional Finalist. National Association of County Agricultural Agents. For "The National Mall in Washington, D.C." *Role:* 100%.
2013. Communication Award: Website. Northeast Regional Winner. National Association of County Agricultural Agents. For "Green Knight News and Events Blog and Social Media Campaign for Natural Resources Issues in New Jersey." *Role:* 90% with P. Rector, Rutgers Cooperative Extension Environmental and Resource Management Agent.
2013. Communication Award: Feature Story. Northeast Regional Winner. National Association of County Agricultural Agents. For "Restrictions on Turfgrass Fertilization Take Effect". *Role:* 100%.
2013. Communication Award: Team Newsletter. Northeast Regional Winner. National Association of County Agricultural Agents. For "Green Knight newsletter". *Role:* 50%, with P. Rector.
2013. Communication Award: Publication. State Winner, New Jersey. National Association of County Agricultural Agents. For "Soils and Stormwater Management: Soil Quality, Compaction, and Residential Development." *Role:* 100%.
2012. Communication Award: Feature Story. Northeast Regional Finalist. National Association of County Agricultural Agents. For "New Jersey Enacts Three Laws Addressing Lawn Fertilizers, Soil Compaction, and Stormwater Basins in the Barnegat Bay Watershed". *Role:* 100%.
2011. Communication Award: Team Newsletter. State Winner, New Jersey. National Association of County Agricultural Agents. For "Green Knight newsletter." *Role:* 50%, with P. Rector.