

JOHN CHRISTOPHER CAPECE

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EDUCATION:

1987-1994 **Ph.D.**, University of Florida Department of Agricultural and Biological Engineering.
1985-1986 Iowa State University, Department of Agricultural Engineering.
1983-1984 **Master of Engineering**, University of Florida Department of Agricultural Engineering.
1981-1982 **Bachelor of Science in Engineering**, University of Florida Dept. of Agricultural Engineering.
1978-1980 University of South Florida, College of Engineering.

PROFESSIONAL EMPLOYMENT:

1999-present **Southern DataStream, Inc.** (agricultural engineering consulting firm) LaBelle, Florida
President. Hydrologic and water quality research services.
1994-1999 **University of Florida.** Institute of Food and Agricultural Sciences. Immokalee, Florida
Assistant Professor. Water quality research, teaching, and extension.
1986-1993 **University of Florida.** Department of Agricultural Engineering,. Gainesville, Florida
Graduate Research Assistant. Pasture lands pollutant transport research.
1985-1986 **Iowa State University.** Department of Agricultural Engineering. Ames, Iowa
USDA National Needs Fellow. Soil nutrient transport research.
1984-1985.1 **University Center of Dschang.** Nat. Advanced School of Agriculture. Cameroon, Africa.
USAID Technical Advisor. Research and classroom instruction.
1983-1984 **University of Florida.** Department of Agricultural Engineering. Gainesville, Florida
Graduate Research Assistant. Runoff estimations methods research.
1980-1982 **U.S. Geological Survey.** Tampa, Florida.
Hydrologic Technician. Flood frequency and stormwater modeling.

NON-PROFIT ORGANIZATION EXPERIENCE AND EMPLOYMENT:

1995-pres. Caloosahatchee River Citizens Association., Ft. Myers FL. *Technical Advisor & Webmaster*
1994-pres. Indian Students and Scholar Services, Inc., Gainesville FL. *Incorporator, Director.*
1992-pres. Chinese Academic Link, Inc., College Park, Maryland. *Director.*
1991-pres. Alpha Epsilon Lambda, Inc., Gainesville, Florida. *Incorporator, Executive Director.*
1991-pres. Intelligentsia International, Inc., Gainesville, Florida. *Incorporator, President.*
1990-pres. Grad Services, Inc., Gainesville, Florida. *Incorporator, Secretary-Treasurer.*
1989-1994 National Association of Graduate-Professional Students, Inc., Washington, D.C.
Incorporator, Southeast Coordinator, Legislative Director, National President.
1985-1992 EBE Services, Dschang, Cameroon, West Africa. *Partner* in agricultural bookstore.

PROFESSIONAL SOCIETIES:

American Society of Agricultural Engineers

American Water Resources Association

ACADEMIC AWARDS AND SOCIETIES:

Tau Beta Pi Omicron Delta Kappa Epsilon Lambda Chi Alpha Zeta
Alpha Epsilon Gamma Sigma Delta Alpha Epsilon Lambda Florida Blue Key
1995 Florida International University GSA Recognition Award
1992 UF Graduate Student Research Paper Award
1991, 1990, 1989, 1987, and 1984 UF Presidential Recognition and 1991 UF Hall of Fame

1989 Pew Foundation National Teaching Assistant Leadership Award

1988 UF-IFAS Student Leadership Award and 1984 UF Outstanding Agriculture Graduate Student

CURRENT PROJECTS

Land Application of Residuals in the Lake Okeechobee Watershed: Phosphorus Considerations

Demonstration project funded by South Florida Water Management District and Florida Department of Environmental Protection to evaluate the phosphorus transport implications of land application of water treatment plant and wastewater treatment plant residuals to pasture lands.

MacArthur Agro-ecology Research Center (MAERC)

Suite of research and demonstration projects funded by South Florida Water Management District, University of Florida, and Florida Department of Environmental Protection to study water quality and hydrology of pasture and range management systems at Buck Island Ranch. The projects include both field studies and simulation modeling. The goal of the project is to develop sustainable cattle management systems and to reduce the phosphorus load to Lake Okeechobee.

Suwannee River Basin Water Agricultural Water Use Modeling

Resource planning project to develop basin wide estimates of future water use demands for agricultural operations in the Suwannee River Water Management District. This project employs the AFSIRS model (University of Florida) and modifications to the model and supporting databases. Results are compared to farm-scale data collection efforts documenting actual agricultural water consumption.

Caloosahatchee River Citizens Association (Riverwatch)

The program seeks to educate the public in water quality and ecosystem management topics and establish constructive linkages between the agricultural community and the non-agricultural community (urban, environmental, and general public) to address critical water resource issues of the region.

Intelligentsia International, Inc. Internship Program

Sponsor of research internships for international university students at the undergraduate and graduate level. Currently supervising eight interns assigned to assist with research and community education projects.

Alpha Epsilon Lambda Development Program

Executive Director of the national honor society for graduate and professional schools students. This relatively young honor society is in the building phase as it works to establish new chapters at U.S. universities and graduate colleges.

RECENT PROJECTS (Former UF Research Projects)

Caloosahatchee Watershed Management Plan

Principal-investigator in a new research project to develop GIS coverages of the Caloosahatchee River Basin in preparation for eventual hydrologic and water quality modeling of the region. In addition to the GIS project, two additional projects are in progress: (1) hydrologic and water quality assessment of citrus groves and (2) development of a comprehensive management practices matrix and database for major agricultural land uses of the region.

Caloosahatchee Oxbow Study

Principal investigator in a comprehensive oxbow assessment study of the Caloosahatchee in preparation for a U.S. Army Corps of Engineers restoration program. Data analysis has documented sedimentation and bank erosion effects in the 35 oxbows. Principal investigator on an oxbow water quality survey project funded by the Florida Center for Environmental Studies.

Florida Panther Refuge Water Quality Study

Principal investigator on evaluation of water quality in the Florida Panther Refuge. We performed sample collection and laboratory services for analysis for surface water quality (pesticides, nutrients, and metals).

FGCU-UF/IFAS Joint Research Program

Principal investigator in a joint research and extension project development agreement between UF/IFAS and Florida Gulf Coast University. The first research project associated with this agreement is to conduct a literature search and prepare a literature review manuscript on publications related to the Caloosahatchee River. This project also led to development of a joint FGCU-UF/IFAS water quality laboratory at the FGCU campus.

Big Cypress Basin Model Peer Review

Principal investigator of a SFWMD-funded project to review and evaluate methodologies used by a consulting firm (Dames & Moore) in developing a hydrologic/hydraulic simulation model for the Big Cypress Basin (Collier County).

DowElanco Telone Fate Study

Co-investigator on fate study of Telone (1,3-dichloropropene), a potential substitute for methyl bromide. I serve as a member of experiment design and implementation team assembled and funded by DowElanco.

Climatological Data Collection

Co-investigator (1995-96) on climatological data collection at SWFREC.

Thermal Characteristics of Vegetable Production Systems

Co-investigator on study of thermal properties of seedling trays and media and their effects on plant germination and viability. Also provided technical assistance to entomology program in data collection on plastic mulch solarization study.

Rangeland Water Quality Study

Co-investigator on rangeland water quality study conducted at SWFREC. A resulting poster was presented at Range Science Society National Meeting.

Wetland Restoration Study

Co-investigator on wetlands restoration project for isolated wetlands on citrus developments. The project has been expanded recently to include a soil fertility management study. Additional project enhancements are anticipated. Water quality data collection is continuing at this site.

Sludge Application Study

Co-investigator on sludge application study on pasture lands. I have designed the water quality component of a study to investigate and demonstrate the viability of municipal sludge application in southwest Florida. Funding has been secured and work is beginning.

Tropical Soda Apple Control

Copoperator on a study of the effect of composting treatments on Tropical Soda Apple seed viability.

Solarization

Co-investigator on evaluation of solarization techniques as a substitute for methyl bromide fumigation of plastic-mulched soil beds. I intend to focus on collecting thermal properties data for area soils and implement the heat transport model.

Irrigation Water Quality Management

Co-investigator on studies to evaluate the suitability of water sources for irrigation use in Florida.

CONTRACTS AND GRANTS

Capece, J.C., G.A. O'Connor, T.A. Obreza, and D.A. Graetz. Land application of residuals in the Lake Okeechobee Watershed: phosphorus considerations. 2000-2003. (\$600,000 from South Florida Water Management District).

Campbell, K.L. and J.C. Capece. Optimization of best management practices for beef cattle ranching in the Lake Okeechobee Basin. 2000-2002. (\$250,000 from Florida Department of Environmental Protection).

Capece, J.C. and K.L. Campbell. MAERC interim monitoring and reporting. 2000. (\$25,000 from UF/IFAS CNR).

Capece, J.C. Reservoir study instrumentation. 1999. (\$40,000 from South Florida Water Management District).

Capece, J.C., M. Mozaffari, K.L. Campbell, and D. A. Graetz: Optimization of best management practices for beef cattle ranching in the Lake Okeechobee Basin. 1997-2000. (\$150,000 from Florida Department of Environmental Protection).

Campbell, K.L., J.C. Capece, and others. Agro-Ecosystem Indicators of Sustainability as Affected by Cattle Density in Ranch Management Systems. 1997-2000. (\$249,000 from USDA NRI/CGP).

Capece, J.C. and K.L. Campbell. Flow measurement systems for MAERC cattle stocking rate and water quality study. 1997-98. (\$38,000 + \$13,000 from Archbold Biological Station).

Capece, J.C. Buck Island Ranch Water Quality Study. 1997. (\$25,000 from UF/IFAS CNR).

Capece, J.C., K.L. Campbell, and E.G. Flaig. Peer Review of the Big Cypress Basin Modeling Project. Work Order No. 2 of C-7615. 1997-98. (\$5,000 from SFWMD).

Capece, J.C. and E.G. Flaig. Development of Runoff Export Coefficients for Selected Agricultural Land Uses in the Caloosahatchee Watershed. Work Order No. 4 of C-7615. 1997-98. (\$60,000 from SFWMD).

Capece, J.C. and E.G. Flaig. Characterization of Land Use Hydrology, and Water Table Behavior in the Caloosahatchee Watershed. Work Order No. 5, Cooperative Agreement No. C-7615. 1997-98. (\$105,000 from SFWMD).

Capece, J.C. Buck Island Ranch Water Quality Study, 1997. (\$15,500 from UF/IFAS CNR).

Capece, J.C. and E.G. Flaig. IFAS-SFWMD Collaborative Agreement. Water and agro-ecology research program initiative between IFAS and SFWMD. 1996-1999. (\$300,000 from SFWMD).

Capece, J. C. and E.G. Flaig. Analysis of Nutrient and Flow Budgets for the Caloosahatchee River using GIS. Work Order #1 of C-7615. 1996-97. (\$52,000 from SFWMD).

Capece, J.C. and M. Mozaffari. Potential For Contamination On The Florida Panther National Wildlife Refuge From Agricultural Runoff Water. 1996-97. (\$24,500 from the U.S. Department of Interior).

Capece, J.C. and E.G. Flaig. FGCU-UF/IFAS Joint Water Quality Project. 1996-97. (\$17,000 from Florida Gulf Coast University).

Capece, J.C. Water Quality Program Development. General development of the SWFREC water quality program. 1996. (\$6,000 from DowElanco).

Capece, J.C. Citrus Wetland Restoration Demonstration Project. Creation and study restoration of an impacted wetland on a Collier County citrus grove. 1995-96. (\$10,000 to grower from Producer-Initiated Grants of Southern Region Sustainable Agriculture Research and Education Program).

Capece, J.C. Buck Island Ranch Water Quality Study. Technical support and GIS/homepage development role in the pasture management field experiment at MacArthur Agro-ecology Research Center. 1995. (\$15,000 from UF/IFAS CNR).

Capece, J.C. Water Quality Infrastructure Grant. Donation of a dormitory unit for SWFREC water quality program. 1995. (\$20,000 from SFWMD).

Capece, J.C. Water Quality Annex Grant. Donation of a modular office building for office and workshop space for the SWFREC water quality program. 1995. (\$20,000 from FAU).

Capece, J.C. and T.A. Obreza. Telone Fate Study. Lab and OPS support staff engaged in vegetable farm surface and ground water experiment. 1994-97. (\$11,000 from DowElanco).

McGovern, R. and J.C. Capece. Epidemiology and Integrated Management of Soilborne Diseases of Vegetables. Investigations into solarization options as a replacement for Methyl Bromide. 1994-96. (\$5000 from USDA).

Capece, J.C. Laboratory-grade Water Treatment Equipment Award. Donation of equipment to develop the SWFREC water quality laboratory capabilities and evaluate new HPLC-grade water purification system with UV-TOC system. 1994-96. (\$5,000 from Millipore).

Capece, J.C. Agricultural Operations Management Software Development. Support for the agro-ecology research program at the MacArthur Foundation Buck Island Ranch. 1994-95. (\$16,000 from UF-IFAS CNR).

Astro, R. and J.C. Capece. Presidents' Exchange Program. Pilot project towards agricultural exchanges between Florida and the Black Sea region of the former Soviet Union. 1994-95. (\$151,000 from USIA to Florida-Eastern Europe Linkage Institute).

Crum, R., J.C. Capece, C.A. Glover, and I.Y. Solarev. Nizhniy Novgorod (Russia) University Development Project. Supporting establishment of programs in American studies, English language, and business education at the Institute of Foreign Languages at Nizhniy Novgorod. 1994-96. (\$500,000 to University of Florida College of Business Administration from U.S. Information Agency).

Capece, J.C. Alpha Epsilon Lambda Leadership Project. Supporting graduate study for Russian student intern of AEL. 1993-96. (\$25,000 from UF Division of Sponsored Research and Graduate Studies).

R. Downie and J.C. Capece. Russia-Eurasia Assistance Program) Supporting graduate study for two Russian interns (Oleg Kisslev and Natalia Akopian). 1993-95. (\$37,000 from National Association for Foreign Student Affairs in cooperation with UF Center for International Students and Scholars).

Capece, J.C. and I.Y. Solarev. Alpha Epsilon Lambda Leadership Project. Supporting graduate study for Russian student intern of AEL for Ilya Solarev. 1993-94. (\$7,000 from UF Division of Sponsored Research and Graduate Studies).

Capece, J.C. Alpha Epsilon Lambda Organizational Development Project. Development of a national academic excellence and leadership honor society for graduate students. 1992-97. (\$50,000 to AEL from United Companies of Dallas).

Capece, J.C. and C.A. Glover. McKnight Achievers Society International/Environmental Exchange Project. Supporting minority student exchange program with Russia. 1992. (\$34,000 to the Florida Endowment Fund for Higher Education from the U.S. Information Agency).

PUBLICATIONS

Books (Chapters/Dissertation/Thesis):

Campbell, K.L. and J.C. Capece. 1998. Hydrologic processes influencing phosphorus transport. In K.R. Reddy (ed.). Phosphorus Biogeochemistry in Subtropical Ecosystems. CRC Press.

Capece, J.C. 1994. Hydrology and Contaminant Transport on Flatwoods Watersheds. Ph.D. Dissertation. University of Florida Department of Agricultural and Biological Engineering, Gainesville FL.

Capece, J.C. 1984. Runoff Peak Rates and Volumes from Flat, High-Water-Table Watersheds. Master of Engineering Thesis. University of Florida Department of Agricultural Engineering, Gainesville FL.

Refereed Publications:

Capece, J.C., and M. Mozaffari. 1997. Agro-ecology research to develop sustainable cattle production practices for Florida. Soil and Crop Science Society of Florida Proceedings. Volume 56:131-135.

Pitts, D., J. Obreza, J.C. Capece, and R. Muchovej. 1997. Suitability of Dade County groundwater for use in micro irrigation systems. Florida Agricultural Experiment Station Journal Series No. N-01298. Southwest Florida Research and Education Center- IFAS, University of Florida, Immokalee, FL 34143.

Campbell, K.L., J.C. Capece, and T.K. Tremwel. 1996. Surface/subsurface hydrology and phosphorus transport. Ecological Engineering 5(1995)301-330.

Campbell, K.L., J.C. Capece, and T.K. Tremwel. 1994. Surface/subsurface hydrology and phosphorus transport. Ecological Engineering (Submitted for special issue on Lake Okeechobee Watershed).

Mullahey, J.J., J.C. Capece, and F. Martin. 1993. Water quality from unfertilized rangeland. Communications in Soil Science and Plant Analysis. 24(17-18):2455-2468.

McGovern, R.J., L.E. Datnoff, I. Secker, C.S. Vavrina, J.C. Capece, and J.W. Noling. 1993. New developments in the management of Fusarium crown and root rot of tomato in southwest Florida. Pages 45-64 In C.S. Vavrina (ed.) Proc. Florida Tomato Institute. Vegetable Crops Special Series SS-HOS-1, Vegetable Crops Department, University of Florida-IFAS, Gainesville, FL 32611.

Burgoa, B., R. S. Mansell, G. J. Sawka, P. Nkedi-Kizza, J. C. Capece, and K. L. Campbell. 1991. Spatial variability of depth to Bh horizon in Florida Haplaquods using ground-penetrating radar. Soil and Crop Sci. Soc. Fla. Proc. 50:125-130.

Capece, J. C., K. L. Campbell and L. B. Baldwin. 1989. Runoff estimation techniques for flatwoods watersheds. In: Application of Water Quality Models for Agricultural and Forested Watersheds. Southern Cooperative Series Bulletin No. 338. October 1989. pp. 78-92.

Capece, J. C., K. L. Campbell and L. B. Baldwin. 1988. Estimating runoff peak rates from flat, high-water-table watersheds. Transactions of the ASAE 31(1):74-81.

Capece, J. C., K. L. Campbell, L. B. Baldwin and K. D. Konyha. 1987. Estimating runoff volumes from flat, high-water-table watersheds. Transactions of the ASAE 30(5):1397-1402.

Capece, J. C., K. L. Campbell and L. B. Baldwin. 1988. Estimating runoff peak rates from flat, high-water-table watersheds. Transactions of the ASAE 31(1):74-81.

Capece, J. C., K. L. Campbell, L. B. Baldwin and K. D. Konyha. 1987. Estimating runoff volumes from flat, high-water-table watersheds. Transactions of the ASAE 30(5):1397-1402.

Technical Papers:

McGovern, R.J., C.S. Vavrina, T.A. Obreza, and J.C. Capece. 1996. Reduction of Fusarium Crown and Root Rot of Tomato by Combining Soil Solarization and Metam Sodium. *Methyl Bromide Alternatives* 2(1):8, January, 1995 U.S. Department of Agriculture Agricultural Research Service, Beltsville, Maryland.

Capece, J. C., K. L. Campbell and D. A. Graetz. 1991. Solution samplers vs. wells for saturated zone monitoring. ASAE Paper No. 912502. St. Joseph, Michigan. 20 p.

Capece, J. C., J. M. Owens and K. L. Campbell. 1991. Denitrification of ground-water samples for improved ion chromatography detection of bromide tracers. ASAE Paper No. 912142. St. Joseph, Michigan. 21 p.

Capece, J. C., T. K. Tremwel and K. L. Campbell. 1990. Hydrologic monitoring of four small watersheds in south Florida. ASAE Paper No. 90-2550, St. Joseph, Michigan. 26 p.

Capece, J. C. and K. L. Campbell. 1990. Electronic spreadsheet preprocessors for hydrologic model data sets. ASAE Paper No. 902636, St. Joseph, Michigan. 12 p.

Capece, J. C. and K. L. Campbell. 1990. Using ground-penetrating radar to develop soil data sets. ASAE Paper No. 902640, St. Joseph, Michigan. 23 p.

Capece, J. C. and K. L. Campbell. 1990. Surface and subsurface flow modeling on flatwoods watersheds. ASAE Paper No. 902543, St. Joseph, Michigan. 13 p.

Stone, K. C., K. L. Campbell, J. C. Capece and L. B. Baldwin. 1988. A microcomputer model for design of Agricultural stormwater management systems in Florida's flatwoods. In: *Proceedings of ASAE International Symposium on Modeling Agricultural, Forest and Rangeland Hydrology*. ASAE Publication 07-88. St. Joseph, Michigan. pp. 186-194.

Capece, J. C., K. L. Campbell and L. B. Baldwin. 1984. Estimating runoff peak rates and volumes from flat, high-water-table watersheds. ASAE Paper No. 84-2020. 55 p.

Non-refereed Conference Proceedings:

Capece, J.C., M. Mozaffari, and G.T. Bancroft. 1997. Agro-ecology Research for Protection of Subtropical Prairie Ecosystems of Florida. *Proceedings of 24th Annual Conference on Ecosystems Restoration and Creation*.

Capece, J.C. and K.L. Campbell. 1993. An overview of University of Florida modifications to SCS runoff estimation methods for flatwoods watersheds. 1993 Symposium on Flatlands Stormwater Hydrology. Suncoast Branch of the American Society of Civil Engineers. Sarasota, Florida.

Campbell, K.L. and J.C. Capece. 1993. Runoff estimation methods for flatwoods watersheds: applications in hydrologic modeling. 1993 Symposium on Flatlands Stormwater Hydrology. Suncoast Branch of the American Society of Civil Engineers. Sarasota, Florida.

Stone, K. C., K. L. Campbell, J. C. Capece and L. B. Baldwin. 1988. A microcomputer model for design of agricultural stormwater management systems in Florida's flatwoods. In: *Proceedings of ASAE International Symposium on Modeling Agricultural, Forest and Rangeland Hydrology*. ASAE Publication 07-88. St. Joseph, Michigan. pp. 186-194.

Campbell, K. L., J. C. Capece and L. B. Baldwin. 1985. Determination of runoff characteristics of flatwoods watersheds. In: *Stormwater and Water Quality Model Users Group Proceedings*. Environmental Protection Agency, Athens, Georgia. January, 1985. pp. 45-59.

Campbell, K. L., J. C. Capece and L. B. Baldwin. 1985. Determination of runoff characteristics of flatwoods watersheds. In: *Stormwater and Water Quality Model Users Group Proceedings*. Environmental Protection Agency, Athens, Georgia. January, 1985. pp. 45-59.

Heatwole, C. D., J. C. Capece, A. B. Bottcher and K. L. Campbell. 1984. Modeling the hydrology of flat, high-water-table watersheds. In: Proceeding of Fourth Annual AGU Front Range Branch Hydrology Days. HYDROWAR Program, Colorado Water Resources Research institute, Ft. Collins, CO. April, 1984. pp. 1-12.

Published Abstracts:

Capece, J. C., M. Mozaffari and G. T. Bancroft. 1997. Agro-ecology Research for Protection of Subtropical Prairie Ecosystems of Florida. Presentation Scheduled for the 1997 Annual Conference on Ecosystem Restoration and Creation. May 15-16. 1997.

Capece, J.C., M. Mozaffari, G. T. Bancroft, K.L. Campbell, and D.A. Graetz. 1997. Developing Cattle Production Practice for Restoration and Protection of South Florida Ecosystems. p.127. In:1997 International Conference on Ecological Restoration and Regional Conservation Strategies. Society for Ecological Restoration. Miami, FL.

Capece, J.C., Rae Ann Scholle, M. Mozaffari, and E.G. Flaig. 1997. Caloosahatchee River Oxbows: Changes in physical attributes and their implications for restoration. p.128: 1997 International Conference on Ecological Restoration and Regional Conservation Strategies. Society for Ecological Restoration. Miami, FL.

Capece, J.C., D.A. Graetz, K.L. Campbell, and M. Mozaffari. 1997. Water quality from subtropical wet prairie ranches. p 35. In. Agron. Abstr. ASA, Madison, WI.

Capece, J. C. Mozaffari and G. T. Bancroft. 1997. The MacArthur Agroecology Research Center An Integrated Research Program to develop Sustainable Cattle Production Systems for Florida. Presentation at the 61st Annual meeting of Florida Academy of Science. Abstract published in Florida Scientist. Volume 60. Supplement 1. Page 15.

Capece, J. C., M. Mozaffari K. L. Campbell and D. A. Graetz. 1997. A Holistic Approach to Developing Sustainable Cattle Production Practices for Florida. Interactions: Investigating Ecosystem Dynamics at a Watershed Level. Soil and Water Conservation Society of America. pp. 22-23.

Capece, J.C., M. Mozaffari, G. T. Bancroft, K.L. Campbell, and D.A. Graetz. 1997. Developing Cattle Production Practice for Restoration and Protection of South Florida Ecosystems. Phosphorus Biogeochemistry in Florida Ecosystems Symposium. University of Florida. Gainesville, Florida. P. 95.

Capece, J. C. Mozaffari and G. T. Bancroft. 1997. The MacArthur Agroecology Research Center An Integrated Research Program to develop Sustainable Cattle Production Systems for Florida. Presentation at the 61 st Annual meeting of Florida Academy of Science. Abstract published in Florida Scientist. Volume 60. Supplement 1. Page 15.

Capece, J. C., M. Mozaffari K. L. Campbell and D. A. Graetz. 1997. A Holistic Approach to Developing Sustainable Cattle Production Practices for Florida. Presentation at the Soil and Water Conservation Society of America Conference on "Interactions: Investigating Ecosystem Dynamics at a Watershed Level." April 13-16. Athens, Georgia.

Mozaffari, M. , J.C. Capece, D.A. Graetz, and K.L. Campbell. 1997. An Integrated research approach to develop sustainable cattle production systems. p. 54. In. Agron. Abstr. ASA, Madison, WI.

Campbell, K.L. and J.C. Capece. 1997. Hydrologic processes influencing phosphorus transformations and transport. Phosphorus Biogeochemistry in Florida Ecosystems Symposium. University of Florida. Gainesville, Florida. P. 47.

Graetz, D.A., M. Mozaffari, J.C. Capece, K.M. Portier, and K.L. Campbell. 1997. Phosphorus availability and sorption in soils of Buck Island Ranch. Phosphorus Biogeochemistry in Florida Ecosystems Symposium. University of Florida. Gainesville, Florida. P. 96.

Capece, J.C. and M. Mozaffari. 1996. Hydrologic and water quality studies at Buck Island Ranch: Modeling land and animal response in the new stocking rate experiment. In Symposium on Current Research at Archbold Biological Station. MAERC, Lake Placid, FL.

Capece, J.C. and M. Mozaffari, and Vitacheslay Abromov. 1996. A World Wide Web Homepage of MacArthur Agro-ecology Research Center. In: Buck Island Ranch Agro-ecology Initiative. *In* 1995 Annual Research and Extension Reports. University of Florida. Institute of Food and Agricultural Sciences.

Capece J.C. and M. Mozaffari. 1996. Application of GRAZE Simulation model to cattle stocking rate experiment at Buck Island Ranch. Presentation at the Symposium on Current Research at Archbold Biological Station. Archbold Biological Research Station. Lake Placid. Florida. Page 2.

Mozaffari, M., and J.C. Capece. 1996. Buck Island Agro-ecology Project: A Multidisciplinary, Multiagency Research Initiative. Presentation at Annual Meeting of American Society of Agronomy. Indianapolis, IN. Agron. Abstr. American Society of Agronomy, Madison, WI. .

Mozaffari, M., and J.C. Capece. 1996. Use of a WWW homepage to disseminate research, extension, and educational information for the MacArthur Agro-ecology Research Center. *In* Symposium on Current Research at Archbold Biological Station. MAERC, Lake Placid, FL.

Mozaffari, M., and J.C. Capece. 1996. Overview of Agro-Ecology Research at Buck Island Ranch. *In* Annual Meeting of Soil and Crop Science Society of Florida. Daytona Beach, Florida.

Trade Magazine Articles:

Flaig, E.G., and J.C. Capece. 1997. GIS In Agriculture: Water Resource Management. Citrus & Vegetable Magazine. Vol. 62:7(14-16).

Capece, J. C. and M. Mozaffari. 1997. Learn about MacArthur Agro-ecology Research Center (MAERC) on the Internet. Florida Cattlemen and Livestock Journal. 61(4):57-59.

Pitts, D.J., and J.C. Capece, J.C. 1997. Iron Plugging of Micro Irrigation Emitters. Citrus & Vegetable Magazine. Vol. 61:7(6-9)

Capece, J.C. and M. Mozaffari. 1996. Estuary-based Water Quality Standards. Citrus and Vegetable, ##:##.

Capece, J.C. and M. Mozaffari. 1996. Learn about The MacArthur Agro-ecology Research Center on the Internet. The Florida Cattleman and Livestock Journal. 61(4): 57,59.

Capece, J.C., D.J. Pitts, and B. Eidus. 1996. Testing for Irrigation Water Salinity. Citrus and Vegetable, 58:11, November, 1996. pp 6-7.

McGovern, R.J., D.O. Chellemi, and J.C. Capece. 1994. The potential of solarization to reduce soilborne pests. Citrus and Vegetable, 57:10, July, 1994. pp 6-8.

Capece, J.C. and K.L. Campbell. 1994. Getting a handle on water quality. Citrus and Vegetable, 57:11, September, 1994. pp 7-9.

Capece, J.C., D.J. Pitts, and B. Eidus. 1995. Testing Irrigation Water Salinity. Citrus and Vegetable, 58:11, pp 6-7.

Grant Project Reports:

Capece, J.C., K.L. Campbell, D.A. Graetz, K.M. Portier, and P.J. Bohlen. 2000. Optimization of Best Management Practices for Beef Cattle Ranching: EPA/DEP 319 Final Report. Florida Department of Environmental Protection. Tallahassee, Florida.

Capece, J.C., S. Jagtap, and G. Benezet. 2000. Agricultural Water Use Estimates for Levy County, Project Deliverables. Suwannee River Water Management District. Live Oak, Florida.

Capece, J.C. and K.L. Campbell. 1999. Optimization of Best Management Practices for Beef Cattle Ranching: EPA/DEP 319 Progress Reports. Florida Department of Environmental Protection. Tallahassee, Florida.

Capece, J.C., E.G. Flaig and Y Zhao. 1998. Development of Runoff Export Coefficients for Selected Agricultural Land Uses in the Caloosahatchee Watershed. Work Order No. 4, Cooperative Agreement No. C-7615. to: South Florida Water Management District.

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