

John C. Gardner

Vice President, Economic Development and Global Engagement
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Education

Ph.D. Agronomy, Crop Physiology, University of Nebraska, 1988
M.S. Agronomy, Kansas State University, 1980
B.S. Agriculture, Kansas State University, 1978

Appointments

2009-	Vice President, Economic Development and Global Engagement, Washington State University
2007 - 2009	Vice President, Economic Development and Extension, Washington State University
2005 - 2007	Vice President, Research and Economic Development, University of Missouri
2001 – 2005	Associate Dean, Research and Extension, Associate Director, Agricultural Experiment Station, College of Agriculture, Food, and Natural Resources, University of Missouri
1999- 2001	Associate Dean/Extension Program Director, College of Agriculture, Food and Natural Resources, University of Missouri
1996-1999	President/General Manager, AgGrow Oils
1987-1996	Director, North Dakota State University Carrington Research Extension Center Adjunct Professor of Plant Sciences
1985-1987	Graduate Research Assistant, University of Nebraska
1983-1984	Associate Agronomist, North Dakota State University Carrington Station
1980-1982	Assistant Agronomist, North Dakota State University Carrington Station
1976-1979	Graduate Research Assistant, Kansas State University

Professional Societies

- American Society of Agronomy
- American Association for the Advancement of Science

Appointments/Governing Boards

Current:

- Council on Engagement and Outreach, Association of Public and Land-Grant Universities, Executive Committee, 2009-
- Rural Policy Research Institute, National Advisory Board, 2009-
- Washington State China Relations Council, Executive Committee, 2009-
- Higher Education Coordinating Board, Co-Chair of Systems Design Planning, 2009-
- Trade Development Alliance of Greater Seattle, Board of Directors, 2008-
- USDA Plant Variety Protection Board, Secretary appointment, 2006- current
- Washington Economic Development Commission, 2007- 2010
- Washington Biotechnology and Biomedical Association, Board of Directors, 2007- current
- Washington Clean Technology Alliance, Board of Directors, 2008 – current
- Washington Global Health Alliance, Executive Committee, 2008 – current
- Mercy CorpsNW, Portland, OR, Board of Directors, 2008- current

Recent relevant Appointments

- Institute of Systems Medicine, Spokane, WA, Board of Directors, 2008- current
- Missouri Biotechnology Association, Board of Directors, 2006 – 2007
- Missouri Technology Corporation, Board of Directors, 2006 – 2007
- Research Alliance of Missouri, Chairman of the Board, 2006 – 2007
- The National Academies University-Industry Demonstration Partnership, MO rep. 2006 - 2007

Relevant Continuing Education

Agribusiness/Agricetual Seminar, Executive Education Program, Harvard Business School, 2004

Awards

- Best Feature Article Award, Journal of Soil & Water Conservation, 2000
- Researcher of the Year, Early Career, North Dakota State University College of Agriculture, 1996
- US ZeroTill Award, Manitoba North Dakota ZeroTillage Farmer's Association, 1995
- Professional Award, ND Soil Water Cons Soc, 1993
- Professional Award, ND Assoc Soil Cons Dist, 1993
- Safe Food Trailblazer Award, Center for Science in the Public Interest, Washington, DC, 1991
- Clifford Hardin Distinguished Fellow of Plant Physiology, University of Nebraska, 1986
- Undergraduate Research Award, College of Agriculture/Gamma Sigma Delta, Kansas State University, 1978

Relevant Publications

Books

- Bird, E.A.R., G.L. Bultena, and J.C. Gardner (Eds.). 1995. [Planting the future: developing an agriculture that sustains land and community](#). Iowa State Press, Ames, IA.

Book Chapters (Invited)

- Huggins, D.R., D.L. Allan, J.C. Gardner, D.L. Karlen, D.F. Bezdicek, M.J. Rosek, M.J. Alms, M. Flock. B.S. Miller, and M.L. Staben. 1998. Enhancing carbon sequestration in CRP-managed land *In* Management of Carbon Sequestration in Soil. CRC Press, Boca Raton, FL.
- Gardner, J.C. and S. A. Clancy. 1996. [The impact of farming practices on soil quality in North Dakota](#), *In* Handbook on Methods of Determining Soil Quality, J.W. Doran and A.J. Jones (Eds.), SSSA Special Pub No. 49, Madison, WI.
- Carlson, K.D., J.C. Gardner, V. L. Anderson, and J.J. Hanzel. 1996. [Crambe: New Crop Success](#), *In* Progress in New Crops: Proceedings of the Third National New Crops Symposium. ASHS Press, Alexandria, VA.
- Francis, C., J. Gerber, M. Liebman, and J. Gardner. 1995. Compatibility of food production and protection of the Environment: An international agenda for research and education, *In* Agriculture and Environment: Bridging food production and environmental protection. ASA Special Pub. No. 60, Madison, WI
- Roetheli, J., K. Carlson, J. Gardner, and K. Schneeberger. 1992 [Rapeseed and crambe: Developing useful products from oils that are high in erucic acid](#), *In* New Crops, New Uses, New Markets, 1992 Yearbook of Agriculture, USDA, Washington, DC.
- Gardner, J.C. and D.B. Faulkner. 1991. Use of cover crops with integrated crop-livestock production systems, *In* Cover crops for clean water, W.L. Hargrove (Ed.), Soil and Water Conservation Society, Ankeny, IA.
- Gardner, J.C., V.L. Anderson, B.G. Schatz, P.M. Carr, and S.J. Guldan. 1991. [Overview of current sustainable agriculture research](#), *In* Sustainable agriculture research and education in the field: a proceedings, National Research Council Board on Agriculture, National Academy Press, Washington, DC.

Journals (Peer Reviewed)

- Gardner, J.C. 2005. Agriculture's contribution to war and peace. Peace Studies Review 1(2):43-47.
- Gardner, J.C. and T.L. Payne. 2003. A soybean biotechnology outlook. AgBioForum 6 (1&2):1-3.

- Karlen, D.L., M.J. Rosek, J.C. Gardner, D.L. Allan, M.J. Alms, D.F. Bezdicek, M. Flock, D.R. Huggins, B.S. Miller, M.L. Staben. 1999. [Conservation reserve program effects on soil quality indicators](#). J. Soil Water Cons. 54(1):439-444
- Karlen, D.L., J.C. Gardner, and M.J. Rosek. 1998. [A soil quality framework for evaluating the impact of CRP](#). J. Prod. Agric. 11:56-60.
- Schuh, W.M., D.L. Klinkebiel, J.C. Gardner, and R.F. Meyer, 1997. Tracer and nitrate movement to groundwater in the northern Great Plains. J. Environ. Qual., 26:1335-1347.
- Liebig, M.A., J.W. Doran, and J.C. Gardner. 1996. [Evaluation of a field test kit for measuring selected soil quality indicators](#). Agron. J. 88:683-686.
- Carr, P.M., J.C. Gardner, B.G. Schatz, S.W. Zwinger, and S.J. Guldan. 1995. Grain yield and weed biomass of a wheat-lentil intercrop. Agron. J. 87:574-579.
- Weiss, M.J., B.G. Schatz, J.C. Gardner, B.A. Nead. 1994. Flea beetle (Coleoptera: Chrysomelidae) populations and crop yield in field pea and oilseed intercrops. Environ. Entom. 23:654-658.
- White, G.A., J.C. Gardner, and C.G. Cook. 1994. [Biodiversity for industrial crop development in the United States](#). Indus. Crops and Prod. 2:259-272.
- Gardner, J.C., J.W. Maranville, and E.T. Paparozzi. 1994. [Nitrogen use efficiency among diverse sorghum cultivars](#). Crop Sci. 34:728-733.
- Schuh, W.M., D.L. Klinkebiel, and J.C. Gardner. 1993. Use of an integrated transient flow and water budget procedure to predict and partition components of recharge in a sub-humid area. J of Hydrology 148:27-60.
- Schuh, W.M., R.F. Meyer, M.D. Sweeney, and J.C. Gardner. 1993. Spatial variation of root zone and shallow zone drainage on a loamy glacial till in a sub-humid climate. J of Hydrology 148:1-26.
- Carr, P.M., B.G. Schatz, J.C. Gardner, and S.F. Zwinger. 1993. Grain yield and return from intercropping wheat and flax. J. Prod. Agric. 6:67-72.
- Carr, P. M., B.G. Schatz, J. C. Gardner, and S.F. Zwinger. 1992. Intercropping sorghum and pinto bean in a cool semiarid region. Agron. J. 84:810-812.
- Gardner, J.C. 1990. Responding to farmers' needs: An evolving land grant perspective. J. Alt Ag. 5:170-173.
- Gardner, J.C., P.M. Carr, B.G. Schatz, and S. J. Guldan. 1990. Multiple cropping in the Northern Great Plains. Great Plains Ag Coun. Bull. No. 131:31-35.
- Villar, J.L., J.W. Maranville, and J.C. Gardner. 1989. High density sorghum production for late planting in the Central Great Plains. J. Prod. Agric. 2:333-338.
- Gardner, J.C. and R.L. Vanderlip. 1989. Seed size and density effects on field performance of pearl millet. Trans. Kans. Acad. Sci. 92:49-59.
- Alagarswamy, G., J. C. Gardner, J. W. Maranville, and R.B. Clark. 1988. Measurement of instantaneous nitrogen use efficiency among pearl millet genotypes. Crop Science 28:681-685.

Miscellaneous

- Gardner, J.C. 2005. Improved Seed Production Systems, Basic Principles and Characteristics. Proceedings of the International Seminar: Seeds, Cultivation, Irrigation and Drainage for Increasing Food Production in Northeast Asia. Yanji City, China
- Gardner, J.C. 2005. Truman, Trade and Technology: The Power of Allied Interests. Proceedings of the 7th Truman Conference, Seoul, Korea
- Gardner, J.C. 1996. Crambe: building new roads from farm to market, INFORM, 7(9):986-989.
- Gardner, J.C. 1994. Choosing among alternative crops. ND Farm Res. 50(2):3-5.
- D'Appolonia, B.L. and J. Gardner. 1991. Industrial uses of North Dakota crops. ND Farm Res. 48 (6):3-6.
- Quam, V.C. and J.C. Gardner, J.R. Brandle, and T.K. Boes. 1991. Windbreaks in sustainable agricultural systems. EC Cooperative Extension Service. NC Regional Ext Bull. Univ of Nebraska 91-1772-X.
- Gardner, J.C. (Ed.) 1989. Grass or Grain: a perennial cropping system for the Northern Great Plains, ND AES Res. Report No. 108.
- Hofman, V. and J. Gardner. 1989. Safe storage, handling and disposal of pesticides and containers. Pesticide Handling Facilities. NDSU Ext. Service Bull AE-977. (Also in Mid-west Plan Services book on pesticide handling).

Web-Based Editorial Columns

- John Gardner's Blog. Washington State University. An occasional essay on topics related to the modern university and the economy. July 2007 – current. <http://www.gardner.wsu.edu/>
- John's Journal. University of Missouri Office of Research and Economic Development. An occasional essay on topics related to University research and the economy. October 2005- 2007. www.umsystem.edu/ums/departments/ed/blog/index.php
- PreScience. A monthly essay of topics related to agricultural research and education, *in* Synthesis. University of Missouri College of Agriculture, Food and Natural Resources, Vo. 1, No. 1- Vo. 4, No. 9, July 2002 – September 2005. www.aes.missouri.edu/synthesis.

National Conferences Organized

- Green Fallow for the Great Plains, Oct 25/26, 1993, Rapid City
Collaborative effort among North Dakota State University, University of Nebraska, Kansas State University, and the Michael Fields Agricultural Institute
- Soil Quality as a Conservation Tool, July 17/18, 1996, Ames
Collaborative effort among North Dakota State University, USDA/ARS Soil Tilth Laboratory, University of Minnesota, Washington State University, Brookside Laboratories, and the National Alliance of Independent Crop Consultants

*Abstracts From National Agronomy Meetings Since 1990 (*invited in a symposium)*

- *Gardner, J.C. 2004. Intellectual property rights as they relate to biological discoveries. ASA Agron. Abstracts.
- *Gardner, J.C. 1995. Origins of Cooperative Fever in ND. ASA Agron. Abstracts.
- *Gardner, J.C. 1995. Evolution of Using Legumes and Green Fallow in the Great Plains. ASA Agron. Abstracts.
- Rosek, M.J. and J.C. Gardner. 1995. Influence of tillage and cropping system on litterbag and cotton strip decomposition. ASA Agron. Abstracts.
- *Karlen, D.L., J.C. Gardner, and M.J. Rosek. 1995. Impact of CRP on soil quality indicators. ASA Agron. Abstracts.
- Carr, P.M., J.C. Gardner, and B. Miller. 1994. Influence of spring wheat-field pea intercrop on soil-N. ASA Agron. Abstracts.
- Schatz, B.S., J.C. Gardner, S.J. Guldan, and S.F. Zwinger. 1994. Impact of alternative legumes on subsequent soil nitrogen and spring wheat in ND. ASA Agron. Abstracts.
- Gardner, J.C., D.L. Karlen, D.F. Bezdicek, M. Alms, D. L. Allan, D.R. Huggins, B.S. Miller. 1994. Soil quality as a conservation tool. ASA Agron. Abstracts.
- Miller, B.S. and J.C. Gardner. 1994. Impact of CRP on soil quality in ND. ASA Agron. Abstracts.
- Liebeg, M.A., J.W. Doran, and J.C. Gardner. 1994. Field and laboratory evaluation of management induced changes in soil quality. ASA Agron. Abstracts.
- Gardner, J.C. and S.A. Clancy. 1992. Ecological impact of three cropping systems versus the Northern Plains prairie. ASA Agron. Abstracts.
- Guldan, S.J., B.G. Schatz., and J.C. Gardner. 1992. Yield and water use efficiency of alternative legumes in east central ND. ASA Agron. Abstracts.
- Schatz, B.G., S.F. Zwinger, P.M. Carr, J.C. Gardner. 1992. Intercropping flax and lentil in the Northern Great Plains. ASA Agron. Abstracts.
- Miller, B.S. and J.C. Gardner. 1991. Soil-spring wheat nitrogen synchrony as influenced by rotation and tillage. ASA Agron. Abstracts.
- Carr, P.M. and J.C. Gardner. 1991. Grain and nitrogen yield of spring wheat-field pea intercrop in a cool semi-arid region. ASA Agron. Abstracts.
- *Gardner, J.C., B.G. Schatz, and P.M. Carr. 1991. Crambe: the cost of a new crop. ASA Agron. Abstracts.
- Carr, P.M., J.C. Gardner, and B.G. Schatz. 1990. Multiple cropping in the Northern Great Plains. ASA Agron. Abstracts.
- Gardner, J.C. B. G. Schatz, B.S. Miller, S.F. Zwinger, P.M. Carr, D. L. Klinkebiel. 1990. Long-term cropping system research in the Northern Great Plains. ASA Agron. Abstracts.

- Klinkebiel, D.L., P.M.Carr, J.C. Gardner, and B.G. Schatz. 1990. Development of alternative crops for the Northern Great Plains. ASA Agron. Abstracts.
- Schatz, B.G, S. F. Zwinger, J.C. Gardner. 1990. Response of three spring wheat varieties to different nitrogen fertility strategies. ASA Agron. Abstracts.
- Guldán., S.J., J.C. Gardner, B.G. Schatz, W. Goldstein, R.N. Klein, J.L. Havlin, A. Schelgel. 1990. Substituting legumes for fallow in the central and northern Great Plains. ASA Agron. Abstracts.

Significant Recent Presentations

National/International Invited Presentations

- International Seminar: Seeds, Cultivation, Irrigation and Drainage for Increasing Food Production in Northeast Asia., 2005, Yanji City, China
- 7th Truman Conference for the 60th Anniversary of the Conclusion of the Pacific War: Issues and Prospects for the U.S.-Korea Cooperation and Conciliation, 2005, Seoul, Korea
- Who will commercialize new crops? Nat. Symp. On New Crops, 1998, Phoenix
- Crambe: A New Crop Success, Nat. Symp. on New Crops, 1995, Indianapolis
- Soil Quality as a Conservation Tool, SWCS Policy Forum, 1995, Washington, D.C.
- Sustainable Agriculture and Ecology, Michigan State Univ. Seminar Series, 1994, East Lansing
- Sustainable Agriculture in the U.S., Univ. Of Sask Seminar Series, 1994, Saskatoon
- Sustainable Agriculture and Ecology, Univ. of Manitoba Seminar Series, 1993, 1994, Winnipeg
- Legumes for Cover Crops, SCS Plant Materials Nat. Conf., 1992, Billings
- Overview of Sustainable Agriculture Research, National Academy of Sciences, 1991, Washington, D.C.
- Land Grant University Faculty and Sustainable Agriculture, Council of Administrative Heads in Agriculture, 1989, Kansas City
- Sustainable Agriculture and Seed Production, AOSCA Nat Conf., 1989, Chicago
- History and Impact of Low-Input Sustainable Agriculture (LISA) in the U.S., Manitoba Agri-Forum, 1989, Winnipeg
- Sustainable Agriculture and the Land Grant University, Inst. of Alt. Agric. Nat. Symp., 1989, Washington, D.C.
- Sustainable Agriculture and North Dakota, USDA organizing conference on Low-Input Sustainable Agriculture, 1988, Lincoln

Regional Invited Presentations (as Researcher)

- Biodiversity and Sustainable Agriculture, ND/SD Ext Serv training on Sus Ag, 1995, Devils Lake, Dickinson, Fargo, Rapid City, Mobridge, and Watertown
- Farming Beyond the Field, NE Sustainable Ag Soc. Ann. Conf. 1995, Ogahalla, NE
- Bringing Agricultural Research Home: Experiences on the Northern Plains, Kansas Heartland Roundup, 1995, Manhattan, KS
- Environment and Agriculture, Univ of MO class on environmental policy in action, 1994, Carrington, ND
- Entomology and Agronomy at the Field Scale, NC Entom Meetings, 1993, Fargo, ND
- On-Farm Research in ND, On-Farm Research Conf, 1992, Champaign, IL
- Organic Farming Research, FVO Symp, 1992, Aberdeen, SD
- Sustainable Agriculture and Crop Rotation, NC ASA Meeting, 1991, Fargo, ND

Synergistic Activities

- *Co-Chair*, College of Sustainability and the Environment, Working Group, Washington State University
- *NC Directors representative*, 2001-2006, Missouri Agricultural Experiment Station.
- *Administrative Advisor*, 2006, NCT205, Development of Pest Management Strategies for Forage Alfalfa Persistence, NC1014, Agricultural and Rural Finance Markets in Transition.
- *Member*, 2004-2006, ESCOP Planning Committee

- *Member/Sub-Committee Chair, University of Missouri-Columbia Strategic Planning and Resource Advisory Council, 2002-2005*
- *Member, University of Missouri System Conflict of Interest Working Group, 2004-2005*
- *President/General Manager, 1996-1999. Organized conceptual background and developmental work for the establishment of a grower-owned agricultural processing business, AgGrow Oils. Capitalized by 540 North Dakotans who invested over \$5 million in 1997, the specialty oilseed processor was a vertically integrated crop production-processing-marketing business. AgGrow formed a 50/50 joint venture with Cenex Harvest States in 1999.*
- *Member, 1988-1994, founding member North Central SARE Technical review panel*
- *Member and Chair, 1992-1994, NCR-157 committee on sustainable agriculture*
- *Member and Chair, 1989-1994, Production Sub-committee, High Erucic Acid Development Effort*
- *Program Review Panel, 1993, NRC Sustainable Agriculture and Natural Resources Program*
- *Principal Investigator, 1989-1996, Alternative Crops for North Dakota, USDA/CSRS, \$220,000*
- *Principal Investigator, 1989-1990, Evaluation of Integrated Low-Input Crop-Livestock, USDA/LISA, \$82,700*
- *Principal Investigator, 1989-1993, High Erucic Acid Development Effort, USDA/CSRS, \$85,000*
- *Principal Investigator, 1989-1992, Substituting Legumes for Fallow in the US Great Plains, USDA/LISA, \$466,000*
- *Principal Investigator, 1990-1992, Transition of Sustainable Farming Practices in ND, Northwest Area Found., \$300,000*
- *Principal Investigator, 1987-1996, Oakes Irrigation Field Trials, GDCD, \$410,000*
- *Principal Investigator, 1993-1996, Indicators of Soil Quality, Northwest Area Found., \$500,000*
- *Principal Investigator, 1994-1995, Indoor Recirculating Aquaculture, USDA/FmHA, \$250,000*

Students Advised

As major advisor at North Dakota State University

- Grant Johnson, 1994, Crop and Weed Science, 'Crop and soil responses to N fertility and previous crop,' M.S., North Dakota State University
- Brad Miller, 1993, Crop and Weed Sciences, 'Wheat yield and N uptake as influenced by previous crop and tillage,' M.S., North Dakota State University

Served on graduate committee at North Dakota State University

- Sharon Clancy, 1995, Animal and Range Science, Ph.D.
- William Heard, 1994, Entomology, Ph.D.
- Barbara Nead, 1994, Entomology, Ph.D.
- Greg Endres, 1993, Crop and Weed Science, M.S.
- Joe Gerand Gratian Vethanayagan, 1993, Entomology, Ph.D.

Undergraduate Internships at the NDSU Carrington Research Extension Center

- Mitch Sivertson, 1995, ND School of Science, Ag Assoc.
- Sarah Bucklin, 1993, 1995, Montana State Univ. Entomology, B.S.
- Ben Larson, 1990-1992, Oberlin College, Environmental Studies, B.S.

Courses Taught

- Introduction to Agricultural Entrepreneurship, Agricultural Economics 3324, Winter Semester 2005, University of Missouri (co-taught with Joe Parcell)

Graduate Advisors

- Richard L. Vanderlip, Kansas State University
 - Jerry W. Maranville, University of Nebraska
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Personal Information

April, 2009

Fifty-one years old, born in Kansas City, MO, raised in Shawnee Mission, KS. Married thirty-three years to Julie Rae Abare Gardner. Julie is early childhood education consultant and staff development trainer with Teaching Strategies, Inc., Washington, D.C. She has a B.S. in Home Economics/Early Childhood Education from Kansas State University, an M.S. in Human Development and the Family from the University of Nebraska, and an M.S. in Counselor Education from North Dakota State University. Three children: Kate (27 years old, B.S. from the University of Missouri), Elisabeth (25 years old, B.J. from the University of Missouri), and John Robert (22 years old, junior at the University of Missouri).