

James Vard Worstell

Birthdate: May 31, 1952
Citizenship: U.S.

Address: 920 Hwy 153,
Almyra, Arkansas 72003 U.S.A.
jim@deltanetwork.org

Education: Ph.D. 1982 Agronomy
University of Missouri-Columbia.
M. A. 1976 Social Psychology
University of Missouri-Columbia

Area of Expertise: Integrating ecology, agriculture, marketing and business development to create sustainable rural enterprise systems and resilient agro-ecological systems. This expertise has been applied with governments, cooperatives, universities and businesses through strategic planning, business development, and research in 37 countries:

Angola	Ukraine	Philippines	Australia	Mexico
Armenia	Cuba	Haiti	Dominican Rep	Jamaica
Ethiopia	China	Guatemala	Senegal	Rep. of Georgia
Uganda	Nepal	Honduras	Gambia	Tanzania
Mozambique	Jordan	Costa Rica	New Zealand	Madagascar
Egypt	Gaza	Ecuador	Zimbabwe	
Moldova	Tunisia	Peru	Malawi	
Turkmenistan	Indonesia	Bolivia	Kenya	

Recent projects have focused on cooperative business planning in Ethiopia, Armenia, Tanzania, Malawi, Kenya, Malawi, and Jamaica; Extension Service of Angola, a 17,000 member milk cooperative in Ukraine; two university farmer outreach centers and the largest private business in Moldova; an 11,000 member cooperative in Kenya; business planning with universities in Jamaica and Republic of Georgia; organizational development in Malawi and Kenya; maize production and marketing in Uganda and Ethiopia and local food enterprises in Appalachia and the Delta.

Volunteer Activities: Elder, St. John's Lutheran Church; Scoutmaster, Troop 260, Soccer Coach; Resilience Blog: <https://meadowcreekvalley.wordpress.com/category/blog/>

Professional Societies and Selected Awards:

Phi Beta Kappa (Academic Honor Society, Elected 1973)

Sigma Xi (Scientific Research Honor Society, Elected 1980)

Fulbright Scholar Winter 2010, Tavrian State Agricultural and Technological University, Melitopol, Ukraine

Best Political Film, Los Angeles Film Festival, 2007; **Founder's Choice Award**, New York Film Festival, New York, 2007. Invited and presented at Cannes Film Festival, 2007.

Executive Producer, **Spilled Milk**, documentary film on Ozark dairy farms.

President's Council on Sustainable Development Sustainable Communities Task Force, 1993-

1995.

Germplasm Release: Worstell, J.V. and E.R. Sears. 1982. Release of highest protein Triticum aestivum Germplasm: 66 (CI 17963). Missouri Agricultural Research Station and Agricultural Research Service, United States Department of Agriculture.

Recent peer reviewed publications:

Worstell, J., & J. Green. (2017). Eight Qualities of Resilient Food Systems: Toward a Sustainability/Resilience Index. *Journal of Agriculture, Food Systems, and Community Development*, 7(3), 23-41.

Green, J., J. Worstell, C. Canarios, R. Haggard, K. Alford & S. Bush. (2018). Exploring the relationships between local agrifood system resilience, multiple measures of development, and health in the Southern United States. *Community Development*, 49: <https://doi.org/10.1080/15575330.2018.1527778>

Green, J., Worstell, J. & C. Canarios (2017) The Local Agrifood System Sustainability/Resilience Index (SRI): Constructing a data tool applied to counties in the southern United States, *Community Development*, 48:5, 697-710,

Recent on-line resilience tool:

Worstell, J. Clark, N. and S. Bertolet, 2018. Community Resilience Assessment and Improvement Tool. <https://meadowcreekvalley.wordpress.com/projects/>

Professional Employment:

Executive Director Resilience Project

1995-present

Responsibilities: Manage staff, facilities and subcontracts to create resilient production, processing and marketing enterprises, non-profit organizations, and policy change. Major private, university and government initiatives are catalyzed through facilitation of cooperatives, conferences in various countries, technical assistance to rural businesses, film documentaries, books and other publications, and the websites <https://meadowcreekvalley.wordpress.com/> and www.deltanetwork.org. Funding provided by USDA, USAID, foundations, governments and private businesses. Accomplishments have included facilitating new processing and marketing businesses in several countries, establishment of new government agencies (e.g., Arkansas Department of Agriculture, Kentucky Agricultural Development Board and Delta Regional Authority), and the books Farms and Markets: Emerging State Policy Options, Transforming Agents: Facilitating Sustainable Agricultural Systems, Roots of Resilience, and Sustainability and Resilience in the Southern United States.

Coordinator, "State of the South" Project
Community Farm Alliance, Frankfort, Kentucky

1991-1995

Managed effort to determine constraints and opportunities for sustainable agricultural systems in thirteen Southern states. Oversaw sub-contracts to University of Kentucky, University of Georgia, Texas A&M University, Rodale Institute and others to collect and analyze data and develop research and education projects. Facilitated surveys and focus groups of Farm Bureau leaders, Extension, NRCS and farmers and opportunity workshops to create farmers-researcher networks across the South. Participate in collaborative policy initiatives including State of Kentucky Water Quality Consensus Group. Publications included: Nature, farmer, university: toward unity of enterprise and ecology in the U.S. South and Southern Futures: Opportunities for sustainable agricultural systems in the South. USDA, state and foundation grants were obtained to support workshops, research and publications.

Agricultural Development Specialist 1986-1990
Save the Children Federation, Westport, Connecticut

Provided planning, evaluation, technical assistance and training in sustainable rural development in 41 developing countries. Major accomplishments included: coordinating technical aspects of worldwide projects averaging over \$11 million in expenditures per year; developed training workshops with staff on five continents, including introducing IPM in isolated regions of Philippines and Nepal; organizing a consortium of 1890 universities and PVOs to create enterprises which enhance natural resources in Africa; organizing the Living Soils Consortium comprised of seven PVOs, Peace Corps and four research centers working in five countries; authored and published the manual: Evolving Local Agricultural Strategies; now in use by several NGOs as part of general planning and Agricultural Enterprise Creation workshops.

Manager, Agriculture Programs 1984-1986
Save the Children Federation, Berea, Kentucky

Organized and managed collaborative efforts of universities, farmers and non-profits to create production and marketing cooperatives including: organizing and managing a fresh vegetable cooling-grading-packing plant and marketed green peppers and cucumbers for 175 farmers; organizing eight other cooperatives (e.g. sorghum, sheep, herbs, cattle, feeder pigs); obtaining construction and operating capital for cooperatives from various private and government sources;

Assistant Research Professor-Agronomy 1982-1983
University of Kentucky, Lexington, Kentucky
 Research leader of molecular genetics of tobacco research project.

Post-Doctoral Fellow-Plant Sciences 1982
USDA/ARS & Texas A&M University, College Station, Texas
 Researched sorghum genetics and cytogenetics with field plots from Texas to Nebraska

- Research Associate-Biochemistry** 1981-1982
University of Kentucky Medical Center, Lexington, Kentucky
 Researched molecular genetics of potyviruses.
- Research Assistant-Agronomy** 1977-1981
University of Missouri, Columbia, Missouri
 Managing research greenhouse and manipulation of wheat genome
- Instructor, Social and Applied Psychology** 1976-1978
University of Missouri, Columbia, Missouri
- Instructor, Social Psychology** 1976
Lincoln University, Jefferson City, Missouri

Peer-Review Panels

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|---|------------|
| USDA/Research, Education and Extension | |
| SARE (Sustainable Agriculture Research and Extension) | 1992-1995 |
| Beginning Farmer Rancher Development Program | 2009, 2015 |
| USDA/Rural Development | |
| VAPG (Value-Added Producer Grant Program) | 2002-2013 |
| USDA/Marketing | |
| Farmers Market Promotion Program | 2012 |
| Local Food Promotion Program | 2014 |

Non-Profit Board Positions

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| Board Member, Meadowcreek | 2011-2017 |
| Board Member, Governing Council | 2002-2010 |
| National Sustainable Agriculture Coalition , Washington, D.C. | |
| Board Member and Executive Committee | 1993-2000 |
| Consortium for Sustainable Agriculture Research and Education | |
| Treasurer and Board Member | 2001-present |
| Arkansas Farm Community Alliance | |
| Secretary-Treasurer and Board Member | 1997-present |
| Arkansas Delta Council | |
| President, Board of Directors | 1995-1997 |
| Ozark Small Farm Viability Project, Inc. | |
| Board Member, Community Farm Alliance | 1991-1994 |

Recent consultancies with reports available on request

Worstell, J.V., 2019. Strategic planning for Madagascar non-profit rice seed enterprise. CNFA.

- Worstell, J.V., 2019. Marketing white pea beans for Ethiopian cooperative union. Ras Gayint Cooperative Union and Catholic Relief Services.
- Worstell, J.V., 2019. Analysis of agro-tourism potential in Kyrgyzstan. ACDI.
- Worstell, J.V., 2019. Moldova Organic Value Chain Alliance Strategic Plan. CNFA.
- Worstell, J.V., 2018. Resilient income generation training in Ethiopia. Harar Catholic Secretariat and Catholic Relief Services.
- Worstell, J.V., 2018. Strategic Plan for TEC Oldeani Farm. Tanzanian Episcopal Council and Catholic Relief Services.
- Worstell, J.V., 2017. Marketing for Armenian Organic Farmers. ACDI/VOCA and OASI/Republic of Austria.
- Worstell, J.V., 2017. Increasing Capacity of UWAKICHI Cooperative in Kikavu Chini, Tanzania. Catholic Relief Services.
- Worstell, J.V., 2017. Mtadeya (Malawi) Cooperative Business Plan. Citizens Network for Foreign Affairs and USAID
- Worstell, J.V., 2016. Climate Resilient Enterprise Development Plan for Jamaica. College of Agriculture, Science and Education, ACDI and USAID
- Worstell, J.V., 2016. Nguku (Kenya) Cooperative Business Plan. Catholic Relief Services and USAID
- Worstell, J.V., 2016. Kabeza (Malawi) Cooperative Business Plan. Citizens Network for Foreign Affairs and USAID
- Worstell, J.V., 2016. Linga Winery Marketing Plan. Citizens Network for Foreign Affairs and USAID.
- Worstell, J.V., 2015. Mentoring and marketing networks creating new resilient farms in the Ozark Mountains. USDA, University of Missouri, University of Ozarks.
- Worstell, J.V., 2015. Validating sustainability/resilience and quality of life indices in the Southern United States. USDA and University of Georgia.
- Worstell, J.V., 2015. Strategic plan for Zaire Province Extension Service, M'Banza Congo, Angola. Citizens Network for Foreign Affairs.
- Worstell, J.V., 2014. Creating a resilient local food system in Central Kentucky. Berry Center, New Castle, KY.
- Worstell, J.V., 2014. Meki, Ethiopia, Catholic Secretariat Organizational Development. Catholic Relief Services, March-April 2014.
- Worstell, J. V. 2013. Resilient Local Food Systems. La Lucha Space Farmers Market Promotion Program Project. Conway, Arkansas.
- Worstell, J. V. 2013. Experiential environmental education for 1600 acre Meadowcreek facility. Meadowcreek, Inc., Fox, Arkansas.
- Worstell, J. V. 2013. Establishing St. Joseph Farm and Education Center. St. Joseph Center, North Little Rock, Arkansas.
- Worstell, J. V. 2013. State of the South 2015 Concept Paper. Griffin, GA: Southern Sustainable Agriculture Research and Education Program.
- Worstell, J. V. 2013. Transforming maize production systems for Ugandan smallholders. Namungalwe Area Cooperative Enterprise, Namungalwe, Uganda.
- Worstell, J. V. 2013. Village Enterprise Development in Akhaltsikhe region. Georgian Business Development Center-Caucasia, Akhaltsikhe State University, Akhaltsikhe, Georgia.

- Worstell, J. V. 2013. Environmental amelioration and topsoil building with browsing cattle in eroded lands in Missouri. University of Missouri and Worstell Trust.
- Worstell, J. V. 2012. Local Rural Development Project Development and Management. Caritas de Manica-PDP, Manica, Mozambique.
- Worstell, J. V. 2012. MACIP Strategic Plan. Academy of Economic Sciences, Chisinau, Moldova.
- Worstell, J. V. 2012. Ozark Cooperative Enterprise Network, University of Missouri.
- Worstell, J. V. 2012. Skills for Catalysts of Milk Country Cooperative. Milkiland and Bridges, Kyiv, Ukraine.
- Worstell, J. V. 2012. Trajectories for Ukrainian Landscapes since 1990. National Agrarian University, Kyiv, Ukraine.
- Worstell, J. V. 2012. Hybrid online/Amish model for beginning farmers in Ozark food desert. La Lucha Space and Falling Sky Farm, Marshall, Arkansas.
- Worstell, J. V. 2012. Egyptian Seedling Greenhouse Management. West Nubaria Rural Development Project, Cairo, Egypt.
- Worstell, J. V. 2012. Food desert families becoming grower/vendors. Argenta Farmers Market and Scott Heritage Farm, North Little Rock, Arkansas.
- Worstell, J. V. 2012. Product Quality Initiative for Moldovan Smallholders: Testing Laboratory and GAP Training. USDA/Foreign Agricultural Service.
- Worstell, J. V. 2011. Villages, vertical integration, abandonment: sustainability in evolving Ukrainian Landscapes. Pennsylvania State University, Sept 30, 2011.
- Worstell, J. V. 2011. Creating locally-owned, value-added enterprises in rural Kenya. MACODO, Miti-Andei, Kenya and CNFA.
- Worstell, J. V. 2011. Greenhouse production and direct marketing training for local heritage products. Meadowcreek, Inc., Fox, Arkansas and USDA/FMPP.
- Worstell, J. V. 2011. Heirloom tomato marketing analysis. University of Arkansas-Monticello and Arkansas Department of Agriculture.
- Worstell, J. V. 2011. UCCM Product Quality Initiative: testing laboratory and producer training. Universitatea Cooperatist-Comerciala din Moldova, Chisinau, Moldova.
- Worstell, J. V. 2011. Enterprise Development and Feasibility Analysis for Community-Based Organizations in rural Kenya. MACODO, Yumbuni and Nairobi, Kenya.
- Worstell, J. V. 2011. Grand Prairie Green: Rice Straw Feasibility Analysis and Business Plan. Grand Prairie Biofuels, LLC, Stuttgart, Arkansas.
- Worstell, J. V. 2011. Scattering Fork Wild Beef: Feasibility Analysis and Business Plan. Worstell Trust, Mexico, Missouri.
- Worstell, J. V. 2011. Business Planning for MOLDCOOP: Training of trainers. Washington, D.C.: CNFA and Moldva Office, Chisinau, Moldova.
- Worstell, J. V. 2010. Revitalizing Moldova's largest private company: MOLDCOOP. Washington, D.C.: CNFA and Moldva Office, Chisinau, Moldova.
- Worstell, J.V., 2010. Tiered, self-selecting system for economic development in Eastern Ukraine (Многоуровневая, самостоятельного выбора системы для целей экономического развития в Восточной Украине.) Melitopol, Ukraine: Tavrian State Agro-Technological University (Таврический государственный агротехнологический университет).

- Worstell, J. V. 2009. Agrostoc Cooperative Grain Warehouse Business Plan. Washington, D.C.: CNFA and Moldova Office, Chisinau, Moldova.
- Worstell, J. V. 2009. Central Moldovan Fresh Vegetable Marketing Business Plan. Washington, D.C.: CNFA and Moldova Office, Chisinau, Moldova.
- Worstell, J.V. 2009. Multi-Product Marketing for Meat Producers. Oppello, Arkansas: A Whole New Approach, LLC.
- Worstell, J. V. 2008. Creating a Ukrainian Farm Bureau: Business Creation and Policy. Washington, D.C.: CNFA and Volyn Oblast, Ukraine.
- Worstell, J.V. 2008. Petit Jean Natural Business Plan. Morrilton, Arkansas: Petit Jean Farms, LLC.
- Worstell, J.V. 2008. Grand Prairie Biofuels Business Plan. Pine Bluff, AR: Grand Prairie Biofuels, LLC.
- Worstell, J.V. 2008. Delta Sweet Sorghum Ethanol, Lake Village, AR: Delta Sweet Sorghum Ethanol Producers, LLC.
- Worstell, J.V. 2007. Greenhouse Production and Marketing. Winrock International and Land O'Lakes, Dashoguz, Turkmenistan.
- Worstell, J.V. 2007. Arkansas Farmers Biofuels Business Plan. Pine Bluff, AR: Orlicek Farms.
- Worstell, J.V. 2007. Ozark Ethnic Direct Business Plan, Morrilton, AR: Hair Sheep Market Management Group.
- Worstell, J. V. 2007. Besidka Cooperative Business Plan. Washington, D.C.: CNFA and Mayor's Office Besidka, Kyiv Oblast, Ukraine.
- Worstell, J.V., 2006. Dairy market research and processing plant design. Arkansas Natural Dairy Products Association. Hattiesville, Arkansas.
- Worstell, J.V., 2006. Green tourism: lessons from Appalachia for Zakarpattia. Village tourism development as form of micro-business. Rachiv, Ukraine. Euroasia Foundation. August 2006.
- Worstell, J.V., 2006. Business Planning Workshops. Hazda Cooperative, Kvasy, Ukraine.
- Worstell, J.V., 2006. Ethanol for the Delta. Arkansas Farm Bureau Annual Convention March, 2007.
- Worstell, J.V., 2006. Dairy Industry in Zacarpattia, Ukraine. Mayor's Office, Kvasy, Ukraine. February 2006
- Worstell, J.V. 2005. Cooperative Development in Poltava Oblast, Land O'Lakes Regional Seminar, Verbkhie, Ukraine. April, 2005.
- Worstell, J.V., 2005. All-Arkansas Farmer Celebration. Arkansas Farm Community Alliance, Little Rock, Arkansas. June 2005.
- Worstell, J.V., 2005. Marketing blueberry yogurt, Sulfur Springs Blueberry Farm, Pine Bluff, Arkansas.
- Worstell, J.V., 2005. Marketing of remote monitoring and control of irrigation. Izon, Inc, Paragould, Arkansas. February 2005-February 2006.
- Worstell, J.V., 2005. Ozark Ethnic Direct. Hair Sheep Market Management Group, Morrilton, Arkansas.
- Worstell, J.V., 2004. Marketing New Oil Processing Products. Planters Cotton Oil Cooperative, Pine Bluff, Arkansas.
- Worstell, J.V., 2004. Vegetable Cooperatives in Ukraine, Mayor's Office of Globina, Ukraine.

- Worstell, J.V., 2004. Toward a State Department of Agriculture for Arkansas. Arkansas Farm Community Alliance Conference, Petit Jean Mountain, Arkansas.
- Worstell, J.V., 2002. Diversifying Agriculture in Arkansas. Arkansas Farm Community Alliance Conference, Petit Jean Mountain, Arkansas.
- Worstell, J.V., 2001. Tiered, sequential, self-selecting assistance policies for poor rural areas in the U.S. International Symposium on Construction and Sustainable Development of West China, Cheng Du, Peoples Republic of China
- Worstell, J.V. 2000. Facilitation of sustainable rural development. Food First conference Havana, Cuba.
- Worstell, J.V., 2000. Delta Policy Initiatives. Delta Summit, Clarksdale, MS, March 14, 2000.
- Worstell, J.V., 2000. Motivating teams for systems facilitation. USDA: Southern SARE, Jekyll Island, GA, January 2000
- Worstell, J.V. 1999. Entrepreneurial Agriculture. Seminar to USDA staff. Washington, D.C. October 1999.
- Worstell, J.V. 1999. Delta Enterprise Network. USDA Delta Compact Conference, Jonesboro, Arkansas, June 1999.
- Worstell, J.V. 1998. Marketing, policy and agroecosystems. American Society of Agronomy, Baltimore, Maryland, October 20, 1998.
- Worstell, J.V. 1997. Kenaf for rural development in Arkansas. Testimony before Joint Committee on Local Government, House and Senate Committee, State of Arkansas, December 18, 1997.
- Worstell, J.V. 1997. Facilitating Delta Center. Entrepreneurial Agriculture in the Northern Delta, Dyersburg, Tennessee, November 13, 1997.
- Worstell, J.V. 1997. Process and skills in systems facilitation. North American Farming Systems Research and Extension Conference, Mount Hood, Oregon, November 3, 1997.
- Worstell, J.V. 1997. U.S. State policies for value-added diversification. International Agribusiness Marketing Association, Jakarta, Indonesia June 23, 1997.
- Worstell, J.V. 1997. Futures for Kentucky agricultural research. Kentucky Agricultural Advancement Council, Lexington, Kentucky, February 6, 1997.
- Worstell, J.V. 1996. Policy and research priorities: methods for consensus and synthesis. American Society of Agronomy, Indianapolis, Indiana, November 3, 1996.
- Worstell, J.V. 1996. Farmer-owned new crop ventures: where do they come from? New Crops Conference, University of Queensland, Gatton, Australia July, 1996.
- Worstell, J.V. 1996. Bt cotton and resistance. USDA Symposium, Bethesda, Maryland, April 15-16, 1996.
- Worstell, J.V. 1995. Beyond commodity production: government and agriculture. University of Queensland, Gatton, Australia and New South Wales Agriculture, Orange, Australia, November, 1995
- Worstell, J.V. 1995. Transforming state government for increased agricultural sustainability. Kentucky Leadership for Agricultural and Environmental Sustainability, Frankfort, Kentucky, September 19, 1995.
- Worstell, J.V. 1994. Rural development and entrepreneurs in the South. Professional Farm Workers Conference, Tuskegee University, December 3, 1994.
- Worstell, J.V. 1994. Sustainable agriculture and quality of life. Southern SARE/ACE, Atlanta,

- Georgia, June 24, 1994
- Worstell, J.V. 1994. Rural Development and Sustainable Agriculture. Association of Agricultural Administrators (1890 Universities), Little Rock, Arkansas, June 11, 1994.
- Worstell, J.V. 1994. Industrialization of Agriculture and the Family Farm. Testimony to Joint Economic Committee, United States Congress, Published by U. S. G.P.O.
- Worstell, J.V. 1993. Transforming USDA Science and Education Policy. Riley Memorial Foundation Roundtable, Washington, D.C., November 23, 1993.
- Worstell, J.V. 1993. Participatory Assessment of Southern Agricultural Research and Education Opportunities. Columbus, OH: North Central SARE Administrative Council.
- Worstell, J.V. 1993. Moving Southern Land Grants Toward Reform. Minneapolis, MN: Land Grant Accountability Project.
- Worstell, J.V. 1993. Constraints and Opportunities in Sustainable Agriculture. Baton Rouge, LA: SARE Administrative Council.
- Worstell, J.V. 1992. Congressional Testimony: Sustainable Agriculture and the Family Farm. Washington, D.C.: Joint Economic Committee.
- Worstell, J.V. 1991. Adaptation/adoption of BNF research: Participatory approaches in Haiti, Uganda, Senegal and Nepal. National Science Foundation Biological Nitrogen Fixation Networking Workshop. Banff, Alberta, September 4, 1991.
- Worstell, J.V. 1991. Commodification waxes, sustainability wanes: burley tobacco. Rural Sociological Society Annual Meetings. August 20, 1991.
- Worstell, J. V. 1991. Seeds and tools in famine mitigation. Famine Mitigation Conference. USAID: Coolfont, West Virginia, August 1, 1991.
- Worstell, J.V. 1991. Sustainable Agricultural Systems Research Feasibility in Malawi, Zimbabwe and Kenya. SANREM Consortium, Lead: Michigan State University.
- Worstell, J.V. 1990. Forestry NGO Networks in Nepal and Biological Soil Improvement. CARE.
- Worstell, J.V. 1990. Soil Resource Enhancement in a Sustainable Agriculture Network in Indonesia. Winrock International and World Vision.
- Worstell, J.V. and Pruyne, E.C. 1990. Management Capability Assessment and Feasibility Analysis for Nueva Valencia Multi-Purpose Cooperative. Save the Children, Philippines Field Office.
- Worstell, J.V. 1990. Participatory Outreach in Natural Resource Management in Tunisia. La Fondation Tunisienne pour le Developpement Communautaire.
- Worstell, J.V. 1990. Agroforestry and Biological Nitrogen Fixation in Senegal: Potential for Outreach. Africare and Winrock International.
- Nittler, J., White, A. and Worstell, J.V. 1989. Conceptual Framework for Enhanced Save the Children Activities in Natural Resource Conservation in Central America. Save the Children-Latin America Region.
- Nittler, J., White, A. and Worstell, J.V. 1989. Environmental Education for Sustainable Agriculture Promotion. Save the Children-Latin America Region.
- van Schaik, M. and Worstell, J.V. 1989. Legume management in Haiti: Possibilities for a future strategy. Pan American Development Foundation.
- Worstell, J.V. 1989. Agroforestry in Maissade: Motivation by Groupement. Save the Children, Haiti Field Office.

- Worstell, J.V. 1989. Resource Enhancement through agro-enterprise in rural Jordan. Save the Children.
- Worstell, J.V. 1988. Soils, water and social systems: Improving the natural resource base in Bani Hamida through income-generating projects. Save the Children-Middle East Region.
- Worstell, J.V. and Campbell, E.C. 1988. Sub-regional Agricultural Development Workshop, Lima, Peru. Save the Children.
- Worstell, J.V. and Campbell, E.C. 1988. Agricultural programming: Marketing and other major activities (Inquisivi, Bolivia). Save the Children.
- Campbell, E.C. and Worstell, J.V. 1988. Small scale enterprise and agricultural development: A credit program for Yucumo Impact Area. Save the Children, Bolivia Field Office.
- Worstell, J.V. 1987. Agricultural diversification and post-harvest enterprise efforts in Salcedo, Ecuador. Save the Children.
- Worstell, J.V. 1987. Feasibility of Cooperative Farm Models for Zimbabwe. Save the Children.
- Worstell, J.V. 1986. Groups-->training-->credit-->extension: A rural development paradigm. Save the Children, Dominican Republic Field Office.

Books

- Worstell, J.V., 1991. Evolving Local Agricultural Strategies. Westport, CT: Save the Children.
- Worstell, J.V., 1995. Southern Futures: Sustainable Agricultural Strategies. Washington, D.C.: USDA, Sustainable Agriculture Research and Education.
- Worstell, J.V., 1997. Farms and Markets: Emerging State Policy Options Frankfort, KY: Kentucky Department of Agriculture.
- Worstell, J.V., 2002. Transforming Agents: New Generation Organizing, Chicago, IL: Farm Foundation.
- Worstell, J.V., and L. Johnson, 2015. Roots of Resilience. USDA: <https://meadowcreekvalley.wordpress.com/projects/land/roots-of-resilience-the-book/>
- Worstell, J.V., 2016. Sustainability and Resilience in the Southern States. USDA: Southern SARE.

Selected Publications

- Worstell, J., & Green, J. (2017). Eight qualities of resilient food systems: Toward a sustainability/resilience index. *Journal of Agriculture, Food Systems, and Community Development*. Advance online publication. <http://dx.doi.org/10.5304/jafscd.2017.073.001>
- Green, J.J., J. Worstell & C. Canarios (2017): The Local Agrifood System Sustainability/Resilience Index (SRI): Constructing a data tool applied to counties in the southern United States, *Community Development*, DOI: 0.1080/15575330.2017.1370001
- Worstell, J. V. 2012. What future for Ukraine? Ukraine Business Insight, April/May 2012.
- Worstell, J. V. 2009. Odessa, Crimea, Azov Sea: rural development. *Liberty Group Publishing, Nationwide newspapers*, September, 2009.
- Worstell, J. V. 2009. Moldovan development prospects. *Liberty Group Publishing, Nationwide newspapers*, July, 2009.

- Worstell, J. V. 2008. Creating Farm Bureau in Ukraine. Liberty Group Publishing, Nationwide newspapers, July, 2007.
- Worstell, J. V. 2007. Turkmenistan: Comfort zone bordering Afghanistan and Iran. Liberty Group Publishing, Nationwide newspapers, December, 2007.
- Worstell, J. V. 2007. The country we all come from: lessons from Ukraine. Liberty Group Publishing, Nationwide newspapers, March, 2007.
- Worstell, J. V. 2006. Hazda Cooperative in the New Europe. Liberty Group Publishing, Nationwide newspapers, November, 2006.
- Worstell, J. V. 2006. Carpathian Mountain Dairy Cooperative Development. Liberty Group Publishing, Nationwide newspapers, April 2006.
- Worstell, J. V. 2005. Verbky Cooperative in Ukraine. Liberty Group Publishing, Nationwide newspapers, March 2005.
- Worstell, J. V. 2004. Developing Cooperatives in the former Soviet Union. Liberty Group Publishing, Nationwide newspapers, April 9, 2004.
- Worstell, J.V. 2001. Facilitation of state policy for value-added agriculture. Bridges. Federal Reserve Bank of St. Louis
- Worstell, J.V. 1997. Systems facilitation to move agronomy beyond commodities. Agronomy Abstracts **89**: 55.
- Worstell, J.V. 1996. Kentucky farms and markets: emerging policy opportunities. Frankfort, KY: Kentucky Department of Agriculture.
- Worstell, J.V. 1996. Policy and research priorities: methods for consensus and synthesis. Agronomy Abstracts **88**: 58.
- Worstell, J.V. 1995. Southern priorities: sustainability means marketing alternatives. Agronomy Abstracts **87**: 53.
- Worstell, J.V. 1995. Southern Futures: opportunities for sustainable agricultural systems. USDA: Southern SARE/ACE, University of Georgia, Griffin, Georgia.
- Worstell, J.V. 1994. Nature, farmer, university: toward integration of agriculture and ecology. USDA: Southern SARE/ACE, University of Georgia, Griffin, Georgia.
- Worstell, J.V. 1994. Constructivist social methods for sustainable systems. Agronomy Abstracts **86**:90.
- Worstell, J.V. 1993. Commodification waxes, sustainability wanes: the case of burley tobacco. Rural Sociological Society Annual Meetings, Columbus, Ohio.
- Worstell, J.V. and B. Colley, 1993. Enabling Resilience, Enhancing Assets: Sustainable Famine Mitigation. Famine Mitigation Strategy Paper. Washington, D.C.: U.S. Agency for International Development, Office of U.S. Foreign Disaster Assistance.
- Worstell, J.V. 1991. Evolving Local Agricultural Strategies. Westport, CT: Save the Children Publications.
- Worstell, J.V., H.F. Kidd and K.F. Schertz. 1984. Relationships among male-sterile-inducing sorghum cytoplasms. Crop Science, **24**: 445-449.
- Worstell, J.V. 1982. Chromosome substitution: Monosomics vs.nullisomic-tetrasomics. Genetics **100**: 75.
- Worstell, J.V. 1981. Nullisomic-tetrasomics in chromosome substitution. Agronomy Abstracts **73**: 76-77.
- Worstell, J.V. 1980. High protein wheat: Use of ABDD gametes and amphiploidy. Agronomy

Abstracts 72: 73.

Worstell, J.V. 1976. Effect of novelty on learned helplessness. MPA Abstracts 89: 77-78.

Other Consultancies with no public consultancy reports

1998: Arkansas Delta Council: Design of Delta rural development center for USDA-ARS.

1998: Kentucky State University: Fund for Rural America Center Planning Grant

1997: Saltillo, Mexico: International Association for Industrial Crops

1997: New Zealand Value-Added Facilitation: Delta Enterprise Network

1997: Indonesia: State value-added policy, Farm Foundation

1997-1998: University of Georgia: Southern Heritage Seed Project, Department of Anthropology

1997: Covenant Environmental Technologies: Mobile hazardous waste recycling.

1997: University of Missouri: USDA/SARE marketing project, Department of Sociology

1996: Arkansas Delta Council: Management consultant.

1995: Arkansas Land and Farm Development Corporation: Organized and coordinated W.K. Kellogg Foundation Integrated Farming Systems Conference.

1993-1997: Kentucky Department of Agriculture, Frankfort, KY:

Assist in collaborative policy development efforts to create state government programs for more environmentally and economically sound agricultural systems in Kentucky.

1990-1993: Famine Mitigation Activity, Office of Foreign Disaster Assistance, USDA, Washington, D.C.

Responsibilities:

1. Team leader for strategy building in social, agronomic and horticultural approaches to food insecurity in East and Southern Africa (Angola, Mozambique, Sudan, Ethiopia and Somalia).

2. On-site visits for farming systems surveys with in-country staff.

3. Develop briefing papers for OFDA staff and overall strategy papers.

1991-1992: Southern Sustainable Agriculture Working Group

Provided training and technical assistance to consortium of 50+ non-profit farmer organizations in 13 Southern states in land-grant research and extension reform--especially related to rural development and sustainable agriculture.

1991: National Academy of Sciences: Proposal Review Panel

1991: World Vision-Appalachia: Small Enterprise Feasibility

1988-1992: Living Soils Consortium, Westport, CT

Coordinated consortium of international PVOs and Peace Corps for technology transfer in sustainable agriculture. Members include CARE, World Vision, ACDI, PADF, Winrock Foundation and Africare. Established NGO coordinating networks in Haiti, Nepal, Senegal and Uganda.

1991-1992: Michigan State University

USAID Sustainable Agricultural Systems Research Project. Consortium members: Michigan State University, Oregon State University, University of Nebraska, Langston University, Texas A&M. Coordinated NGO activities and evaluation. Successfully obtained planning grant for 10 year project. Led site visits to three African countries.

1990-1991: National Science Foundation

- Consultant on agricultural research appraisal and transfer of sustainable agricultural technology.
- 1990: Living Soils Consortium, USAID--Nepal: Forest Soils: Frankia and Rhizobia
 - 1990: SCF-Philippines: Rice Mill-Dryer-Warehouse Co-op
 - 1990: SCF-Tunisia: Soil Erosion Training Strategy
 - 1990: Living Soils Consortium, USAID--Haiti: Inoculum Production Facility
 - 1990: Living Soils Consortium, USAID--Senegal: Sahelian Desertification: Germplasm
 - 1990: SCF-Gambia: Seed Enterprise Strategies
 - 1990: Arkansas: WINROCK Soils Program Design
 - 1990: Heifer Project International-Appalachia Workshop
 - 1990: Appalachian Small Farm Alternatives Workshop
 - 1989: SCF-Appalachia: Small Farm Alternatives Workshop
 - 1989: SCF-Guatemala: Natural Resource Enhancement
 - 1989: SCF-Honduras: Soil Erosion Strategies
 - 1989: SCF-Costa Rica: Environmental Education
 - 1989: SCF-Haiti: Agroforestry via Farmer Groups
 - 1989: SCF-Indonesia: Seed Enterprise Strategies
 - 1989: SCF-Philippines: Integrated Pest Management
 - 1989: SCF-Jordan: Goat Dairy Feasibility Analysis
 - 1988: SCF-Jordan: Forage/Sheep Strategies
 - 1988: SCF-Bolivia: Agricultural Strategy Building
 - 1988: SCF-Peru: Potato Marketing
 - 1988 SCF-New Mexico: Greenhouse Feasibility
 - 1988 University of Hawaii: Soil Rhizobia Workshop
 - 1988 SCF-Appalachia: Small Farm Alternatives Workshop
 - 1987: SCF-Ecuador: Ag. Diversification Strategies
 - 1987: SCF-Zimbabwe: Tobacco Cooperative Farm Management
 - 1987 SCF-American Indian Programs: Culhowee, N.C.: National Indian Child Conference
 - 1985: SCF-South Carolina: Horticultural Program Design