

**CURRICULUM VITAE**  
**Michael K. O'Neill, Ph.D.**

Professor – Plant and Environmental Sciences – Emeritus  
José Fernández Memorial Chair for Crop Production – Emeritus  
<http://aces.nmsu.edu/aes/fernandezchair>

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**Summary**

**Research** encompass the judicious use of water through microirrigation in semi-arid environments; **hybrid poplar** introductions for excelsior and biofuel production; **field crop variety trials** for state and national testing programs, including **oil seed crops for biodiesel** development. **Superintendent for 11 years** with overall responsibility for management of a 250-acre agricultural research facility situated in the high desert of northwestern New Mexico. **Over 30 years** of international agricultural research and development experience, primarily in Africa (Ghana, Burkina Faso, Mali, Niger, Kenya, Rwanda) India, and more recently in Colombia. **Team leader** for three projects in the coffee-based land use system of Embu, Kenya. **Senior Scientist** in Kenya and Niger leading research and dissemination efforts in mixed, small-holder farming systems. **Management** of, and participation in, interdisciplinary, multi-cultural, multi-lingual teams operating within national agricultural research systems (NARS) in collaboration with international agricultural research centers (IARC), universities, national extension programs, and non-governmental organizations.

**Career Interests and Profile**

Short term assignments in agronomy, agroforestry, crop physiology, crop introduction, biofuel research, small-scale irrigation, natural resources management for the semi-arid regions. Collaborative links or Farmer to Farmer assignments with international agricultural research institutes, universities, development organizations, agribusiness and/or consulting firms.

- **Research** encompass the judicious use of water through microirrigation in semi-arid environments; **hybrid poplar introductions** for timber, excelsior and biofuel production; variety trials for state and national testing programs, **including oil seed crops for biodiesel development**;
- **Superintendent** with overall responsibility for management of a 250-acre agricultural research facility situated in the high desert of northwestern New Mexico with three other faculty and 10 support staff;
- **18 years** of international agricultural research and development on a periodic basis in Kenya, Rwanda, Mali, and Colombia while with New Mexico State University;
- **Over 20 years** of direct international agricultural research and development experience, primarily in Africa (Ghana, Burkina Faso, Mali, Niger, Kenya, Rwanda), India and Colombia;

- **Team leader** for three agroforestry projects in the coffee-based land use system of Embu, Kenya including the National Agroforestry Research Project (NAFRP), the African Highlands Initiative (AHI), and the Systemwide Livestock Project (SLP);
- **Senior Agronomist** in Kenya and Niger leading research and dissemination efforts in mixed, small-holder farming systems;
- **Designed, implemented and analyzed** irrigated and dryland agronomic trials in semi-arid Arizona and Sahelian West Africa;
- **Solid knowledge base** of the interactions between crops, livestock, and trees and their productivity within prevailing climatic parameters;
- **Management of, and participation in,** interdisciplinary, multi-cultural, multi-lingual teams operating within national agricultural research systems (NARS) in collaboration with international agricultural research centers (IARC), universities, national extension programs, and non-governmental organizations;
- **Management of on-station and on-farm nurseries** for the production of a diverse range of tree species used in agroforestry research and dissemination;
- **Strong analytical skills** necessary for on-station/on-farm research and dissemination;
- **Excellent association with donor community** and solid knowledge of proposal development and project monitoring processes;
- **Firm grasp of computer software** and literate in: Microsoft Office (i.e. MS Word, MS Excel, MS PowerPoint), CoStat, CoPlot, Adobe Elements, Adobe Photoshop, AWhere, Email communication; and other software programs;
- Advisor for post-graduate students – 3 Post-doc, 15 Ph.D. 19 M.S.

### Employment History

<b>Professor of Agronomy – Emeritus</b> New Mexico State University	<b>Jan 2018 – Present</b>
<b>Member &amp; Acting Chair, Resource Advisory Council (RAC)</b> U.S. Bureau of Land Management (BLM), Farmington Field Office	<b>2016 – Dec 2018</b>
<b>Professor of Agronomy</b> New Mexico State University	<b>2010 – Dec 2017</b>
Farmer to Farmer Volunteer in Colombia, NMSU project with Salva Terra Foundation and La Salle University – Bogota	<b>Mar 2018</b>
Farmer to Farmer Volunteer in Mali, Common Pastures	<b>Mar-Apr 2017</b>
Visiting Faculty in Colombia, Summer Academy, Univ. of La Salle	<b>July 2016</b>
Team Leader, Student/Faculty Exchange in USA, Univ. of La Salle	<b>Apr 2015</b>
Team Leader, Student/Faculty Exchange in Colombia, Univ. of La Salle	<b>Nov 2014</b>
Consultant in Kenya, water harvesting evaluations in Eastern Kenya, Global Knowledge Initiative, Kenyatta Univ. and ICRAF	<b>Oct 2013</b>
Consultant in Kenya, Workshop on Treesilience for East Africa, ICRAF	<b>July 2013</b>
<b>Associate Professor of Agronomy and Superintendent</b> New Mexico State University	<b>2005 – 2010</b>
Sabbatical Leave in Kenya and Rwanda with International Centre for Research in Agroforestry (ICRAF), now World Agroforestry Centre	<b>Mar-Sep 2009</b>
<b>Assistant Professor of Agronomy and Superintendent</b> New Mexico State University	<b>1999 – 2005</b>
<b>Senior Scientist – Agronomist/Agroforester</b>	<b>1991 – 1999</b>

International Centre for Research in Agroforestry (ICRAF) Lead Scientist, National Agroforestry Research Project, Embu, Kenya	
<b>Assistant Professor – Agronomist</b> University of Missouri, <b>USAID-funded project</b> in Kenya, East Africa	<b>1989 – 1991</b>
<b>Senior Agronomist</b> Development Alternatives, Inc. (DAI), <b>USAID-funded project</b> in Niger, West Africa	<b>1985 – 1989</b>
<b>International Intern</b> International Crop Research Institute for the Semi-arid Tropics (ICRISAT), <b>USAID-funded project</b> in Mali and Sorghum/Millet programs in Hyderabad, India	<b>1982 - 1984</b>
<b>Graduate Research Associate</b> University of Arizona	<b>1979 – 1982</b>
<b>Graduate Research Assistant</b> University of Arizona	<b>1977 – 1979</b>
<b>Research Assistant</b> University of Arizona, Agricultural Research Station, Yuma, AZ	<b>1976 – 1977</b>
<b>Peace Corps Volunteer</b> Ghana, West Africa, Secondary School Science Teacher Burkina Faso, West Africa, Wide-bore water well construction supervisor	<b>1971 – 1974</b>
<b><u>Education</u></b>	
<b>Ph.D. Agronomy and Plant Genetics</b> University of Arizona, Tucson, Arizona	<b>1979 – 1982</b>
<b>M.S. Soil and Water Science</b> University of Arizona, Tucson, Arizona	<b>1977 – 1979</b>
<b>Diploma – Social Ecology</b> Goddard College, Plainfield, Vermont	<b>6/75 – 8/75</b>
<b>B.S. Biology/Chemistry</b> Concordia University, Montreal, Canada	<b>1966 – 1971</b>
<b><u>Languages</u></b>	
<b>English</b> – Excellent written and spoken capabilities (Mother tongue)	
<b>French</b> – Fair written and spoken capabilities	
<b><u>Societies and Clubs</u></b>	
<b>Member:</b> American Society of Agronomy	<b>1977 – Present</b>
<b>Member:</b> Soil Science Society of America and Crop Science Society of America	<b>1977 – 2018</b>
<b>Member:</b> Soil and Water Conservation Society	<b>1995 – 2018</b>

<b>Member:</b> New Mexico Chapter, Soil and Water Conservation Society	<b>1999 – 2018</b>
Representative, Region II, New Mexico	<b>2008 – 2018</b>
<b>Member:</b> W-2128, Western Regional Collaborative Project for Microirrigation	<b>1999 – 2014</b>
State Representative	<b>2000 – 2010</b>
Secretary	<b>2004 – 2005</b>
Vice Chair	<b>2005 – 2006</b>
Chairman	2006 – 2007
<b>Member:</b> World Association of Soil and Water Conservation	<b>1995 – 2000</b>
<b>Adviser:</b> International Foundation for Science	<b>1994 – 1999</b>
<b>Reviewer:</b> East African Agricultural and Forestry Journal	<b>1989 – 1999</b>
<b>Reviewer:</b> Journal of Arid Environments	<b>1999 – 2005</b>
<b>Treasurer:</b> American Employees Recreation Association, Niamey, Niger	<b>1987 – 1988</b>
<b>Treasurer:</b> American Embassy Commissary, Niamey, Niger	<b>1986 – 1987</b>

### Graduate Student Advising

<b>Degree</b>	<b>Number of Students</b>	<b>Host Institutions</b>
<b>1989 – 1999 with ICRAF</b>		
Post-Doc	3	ICRAF
Ph.D. Field Research Advisor	14	ICRAF, Purdue, Univ. of Minnesota, Univ. of Florida, Oklahoma State, Univ. of Reading, Harvard, London School of Economics, Wageningen Agricultural Univ., Iowa State, Colorado State, Makerere Univ.
M.S. Field Research Advisor	14	Kenyatta Univ., Wageningen Agricultural Univ., Mississippi State, Moi Univ., Sokoinie Univ., Univ. College Dublin, Univ. of Oxford, Univ. of Alberta, Univ. of Kentucky, Namur Univ.
<b>1999 – Present With NMSU</b>		
Ph.D.	Advisor - 1 Committee - 1	NMSU
M.S.	Advisor - 5 Committee - 3	NMSU

**New Mexico Legislative Appropriations**

**Capital Outlays** .....2009  
 State of New Mexico Legislature; One-time funding  
 Financial support for maintenance and repair to the Center greenhouse.....\$100,000

**Capital Outlays** .....2007  
 State of New Mexico Legislature; One-time funding  
 Financial support for maintenance and repair to the Center irrigation system.....\$100,000

**Enhancement Initiative for ASC-Farmington** .....2005  
 State of New Mexico Legislature; **Annually recurrent funding**  
 Financial support for a Horticulturalist and a Research Technician with start-up funding, support staff, building maintenance and repair, and some operations.....\$194,500

**Enhancement Initiative for ASC-Farmington** .....2003  
 Mick O'Neill – ASC-Farmington Superintendent  
 State of New Mexico Legislature; **Annually recurrent funding**  
 Financial support for two Research Specialist positions, equipment, and some operations.....\$100,000

**USDA-Funded Hatch Projects**

**Sustainable Agroforestry Systems for Crop and Timber Production in Semi-Arid Regions** .....2015  
 A five-year project with the long-term goal of identifying agroforestry system components that can be incorporated into existing land use practices by local producers and Navajo communities.....\$25,000

**Sustainable hybrid poplar and oilseed production for biofuel feedstock in the Four Corners Region** .....2010  
 A five-year project to improve the economy and environment by developing bioenergy feedstocks consisting of hybrid poplar clones and oilseed varieties capable of growing in arid/semi-arid temperate regions.....\$25,000

**Improved Crop and Water Management in the Four Corners Region** .....2004  
 A five-year project to evaluate the performance of improved germplasm of traditional agricultural crops, alternative species, and enhanced water management systems such as surface and subsurface drip irrigation on a sandy loam .....\$25,000

**Subsurface drip irrigation for northwestern New Mexico**.....2000  
 A five-year project to evaluate subsurface drip irrigation on a Wall sandy loam soil with economically important crops, including alfalfa, corn, beans, and potatoes plus the evaluation of hybrid poplar as a newly introduced timber species produced under drip irrigation. ....\$25,000

**Short List of Funded Grants**

**Young leaders innovating for the reinvention of an agricultural sustainable region**.....2014  
 Pardo, G.I., C.G. Beltrán, La Salle University, Bogotá, Colombia

C.H. Menking, K. Chervenock, and M.K. O'Neill, New Mexico State University	
Develop a student and faculty exchange program between the two universities and guide in the installation of an irrigation system at the Utopia Project.	
Partners of the Americas & 100,000 Strong in the Americas Fund.....	\$25,000
Total including La Salle and NMSU in Kind Cost Share.....	\$131,605
<b>Fee-based alfalfa variety testing .....</b>	<b>2013</b>
Leonard Lauriault (PI) and Mick O'Neill (Co-PI).	
Entry fees for alfalfa varieties planted in one year and compared for the next three years at various NMSU locations across the state. Multiple seed companies.....	
	\$4,350
<b>A LINK program: rainwater harvesting survey in Eastern Kenya .....</b>	<b>2013</b>
Mick O'Neill (PI)	
Training of MS and faculty at Jomo Kenyatta University, Nairobi, Kenya, in the use of aWhere, an internet-based meteorological analysis software package. Conduct survey of rainwater harvesting systems and smallholder management in the drylands of Eastern Province, Kenya.	
Global Knowledge Initiative (GKI) .....	\$3,000
<b>Trees and resilience: a review of agroforestry and forests in building resilience in East African drylands .....</b>	<b>2013</b>
Mick O'Neill (PI)	
Participate in a write-shop for practitioners and policy makers dealing with tree resilience and agroforestry systems in Eastern Africa.	
World Agroforestry Centre (ICRAF).....	\$6,800
<b>Fee-based alfalfa variety testing .....</b>	<b>2012</b>
Leonard Lauriault (PI) and Mick O'Neill (Co-PI)	
Entry fees for alfalfa varieties planted in one year and compared for the next three years at various NMSU locations across the state.	
Multiple seed companies.....	\$11,700
<b>Research, Development and Management of Canola for the Great Plains</b>	<b>2012</b>
Sangu Angadi (PI), Robert Flynn (Co-PI), and Mick O'Neill (Co-PI)	
Kansas State University .....	\$33,000
<b>Research, Development and Management of Canola for the Great Plains .....</b>	<b>2011</b>
Sangu Angadi (PI), Robert Flynn (Co-PI), and Mick O'Neill (Co-PI),	
Kansas State University .....	\$30,500
<b>Fee-based alfalfa variety testing .....</b>	<b>2011</b>
Leonard Lauriault (PI) and Mick O'Neill (Co-PI)	
Entry fees for alfalfa varieties planted in one year and compared for the next three years at various NMSU locations across the state	
Multiple seed companies.....	\$9,575
<b>Fee-based alfalfa variety testing .....</b>	<b>2010</b>
Leonard Lauriault (PI) and Mick O'Neill (Co-PI)	
Entry fees for alfalfa varieties planted in one year and compared for the next three years at various NMSU locations across the state.	

Multiple seed companies.....	\$6,975
<b>Sunflower Variety Tests</b> .....	<b>2009</b>
Mick O'Neill (PI)	
Heritage Farm Cooperative	
One year funding, Total Funds .....	\$4,500
<b>Efficient Irrigation for Water Conservation</b> .....	<b>2009</b>
Many Encinias (PI) – David Graham, Mark Marsalis, Sangu Angadi, Mick O'Neill and Jay Lillywhite (CoPIs)	
USDA through Texas A&M University	
Two year funding, Total Funds.....	\$20,930
<b>Wheat Straw as a Biofuel Feedstock for Ethanol Production in New Mexico</b> .....	<b>2008</b>
Mark Marsalis, (PI), Mick O'Neill (Co-PI), and others	
New Mexico Wheat Growers Association	
One-year funding, amount for ASC-Farmington.....	\$3,333
<b>Testing and Evaluation of Camellia Varieties</b> .....	<b>2007</b>
Mick O'Neill (PI) and Sangu Angadi	
WestBred Seed Co., Inc.	
One-year funding .....	\$8,000
<b>Hybrid Poplar as a Regional Ethanol Feedstock: Its Development, Production and Economics</b> .....	<b>2007</b>
Jon Johnson (PI), Washington State University, Mick O'Neill, and others	
Western Sun Grant Initiative	
Three years, amount for NMSU.....	\$32,688
<b>Phytoremediation of a Uranium Processing Site Using Hybrid Poplar</b> .....	<b>2007</b>
Mick O'Neill (PI)	
Stoller Corp. and US Department of Energy	
Three years .....	\$54,607
<b>Low-tech Microirrigation for Small-scale Navajo Producers</b> .....	<b>2005</b>
Dan Smeal (PI), Mick O'Neill (Co-PI), and Margaret West	
US Department of Interior – Bureau of Reclamation	
Initially one year, continued in 2006, 2007, and 2008.....	\$60,000
<b>Modification of the Composition and Quality of Hybrid Poplar Biomass in the Pacific Northwest</b> .....	<b>2005</b>
Brian Stanton (PI), Greenwood Resources, Inc. and Mick O'Neill	
US Department of Energy	
Subcontract with NMSU ASC-Farmington	
Three years.....	\$5,000

<b>Irrigaid Gold for Improved Soil Moisture and Nutrient Use Efficiency in Pinto Beans</b> .....	<b>2005</b>
Mick O'Neill (PI) Aquatrols, Inc. One year .....	<b>\$14,720</b>
<b>Power Plant Combustion Byproducts for Improved Crop Productivity of Agricultural Soils</b> .....	<b>2005</b>
Mick O'Neill (PI), April Ulery, Manoj Shukla, and Blake Onken, Navajo Agricultural Products Industry (NAPI) Combustion Byproducts Recycling Consortium One year .....	<b>\$69,664</b>
<b>Demonstration and Comparison of Irrigation Systems on the Navajo Nation</b> .....	<b>2004</b>
Edward Martin (PI), University of Arizona, Donald Slack, University of Arizona, Mick O'Neill, and Dan Smeal State of Arizona Two years .....	<b>\$75,928</b>
<b>Races of Maize Native to the Southwestern United States</b> .....	<b>2004</b>
Deborah Muenchrath (PI), Iowa State University and Mick O'Neill (Co-PI) US Department of Agriculture, Agricultural Research Service Three years .....	<b>\$35,012</b>
<b>Enhancing Irrigation Efficiency through Education</b> .....	<b>2003</b>
Mick O'Neill (PI) and Dan Smeal US Dept of Interior; Bureau of Reclamation; Water Conservation Field Services Program One year .....	<b>\$18,805</b>
<b>Identification and demonstration of water efficient plants for potential landscape use in northwestern New Mexico</b> .....	<b>2002</b>
Dan Smeal (PI) and Mick O'Neill (Co-PI) US Department of Interior, Bureau of Reclamation One year .....	<b>\$5,000</b>
<b>Four Corners Area Irrigation Workshop</b> .....	<b>2001</b>
Mick O'Neill (PI) and Dan Smeal (Co-PI) US Department of Interior, Bureau of Reclamation One year .....	<b>\$5,000</b>
<b>Turfgrass Irrigation Scheduling Program</b> .....	<b>2001</b>
Dan Smeal (PI) and Mick O'Neill (Co-PI) US Department of Interior, Bureau of Reclamation One year .....	<b>\$5,000</b>
<b>Genetically Modified Bt Corn on the NAPI Farm</b> .....	<b>2001</b>
Bob Hammond (PI) Colorado State University and Mick O'Neill (Co-PI)	



Pioneer Seed, and Grand Valley Seed  
 One year .....\$1,000

**Growth potential of *Chrysanthemum cinerariaefolium* on the**

Colorado Plateau of northwestern New Mexico .....2000

Dan Smeal (PI) and Mick O'Neill (Co-PI)

McLaughlin Gormley King Company

Two years .....\$6,000

**Awards**

O'Neill, M.K. 2018. Meritorious Service Award. Presented by Dr. Garrey Carruthers, Chancellor, New Mexico State University. Las Cruces, NM.

O'Neill, M.K. 2014. Certificate of Appreciation. United States Peace Corps. Fifth Anniversary of Partnership. Coordinator in the College of Agricultural, Consumer and Environmental Sciences for the Peace Corps Paul D. Coverdell Fellows Program. December 11, 2014. Washington, DC.

O'Neill, M.K., et al. 2014. Award of Excellence in Multistate Research. W-2128 (2009-2014): Microirrigation for Sustainable Water Use. The Board on Agriculture Assembly, Experiment Station Committee on Organization and Policy. Presented annually to recognize the high quality science being conducted through the Hatch Multistate Research Program and the impacts of that science on society. Presented at the Association of Public and Land-Grant Universities meeting. November 2, 2014. Orlando, FL.

O'Neill, M.K., et al. 2014. Award of Excellence. Multi-State Research Program. W-2128 (2009-2014): Microirrigation for Sustainable Water Use. Western Association of Agricultural Experiment Station Directors. Western Regional Joint Summer Meeting. July 10, 2014. Lake Tahoe, NV.

O'Neill, M.K. 2012. Gamma Sigma Delta Honor Society of Agriculture. October 17, 2012. College of Agricultural, Consumer and Environmental Sciences, New Mexico State University. Las Cruces, NM.

O'Neill, M.K. 2010. José Fernández Memorial Chair for Crop Production. April 22, 2010. College of Agricultural, Consumer and Environmental Sciences, New Mexico State University. Las Cruces, NM.

[Jose Fernandez Chair](#).

**Crop Release**

Stamm, M., Berrada, A., Buck, J., Cabot, P., Classen, M., Cramer, G., Dooley, S., Godsey, C., Heer, W., Holman, J., Johnson, J., Kochenower, R., Krall, J., Ladd, D., Morre, J., O'Neill, M.K., Pearson, C., Phillips, D., Rife, C., Santra, D., Sidwell, R., Sij, J., Starner, D., Wiebold, W. 2012. Registration of 'Riley' Winter Canola. *Journal of Plant Registrations* Vol. 6 (3), p. 243-245.

Bregitzer, P., D.W. Mornhinweg, R. Hammon, M. Stack, D.D. Baltensperger, G.L. Hein, M.K. O'Neill, J.C. Whitmore, and D.J. Fiedler. 2005. Registration of 'Burton' Barley. *Crop Science*. 45:1166-1167.

**Publications – Book Chapters & Books**

- O'Neill, Michael K., Robert F. Heyduck, Samuel C. Allen, Kevin A. Lombard, Dan Smeal, Richard N. Arnold. 2015. Hybrid Poplar for the Colorado Plateau: NMSU Poplar Research, Farmington, New Mexico. In: The Colorado Plateau VI: Science and Management at the Landscape Scale, 1<sup>st</sup> edited by Laura F. Huenneke, Charles van Riper III, Kelley A. Hays-Gilpin, 06/2015: chapter 5: pages 81-94; University of Arizona Press., ISBN: 13: 978-0-8165-3159-2.  
[https://books.google.com/books?id=-FRzCAAQBAJ&pg=PA81&lpg=PA81&dq=Hybrid+Poplar+for+the+Colorado+Plateau:+NMSU+Poplar+Research,+Farmington,+New+Mexico&source=bl&ots=F7UMufZGAN&sig=pQzHdlqF\\_qkrlmaBqjy-juADXks&hl=en&sa=X&ved=2ahUKEwjxP6CztfAhWq8YMKHfSIAOoQ6AEwDnoECAAQ#v=onepage&q=Hybrid%20Poplar%20for%20the%20Colorado%20Plateau%3A%20NMSU%20Poplar%20Research%2C%20Farmington%2C%20New%20Mexico&f=false](https://books.google.com/books?id=-FRzCAAQBAJ&pg=PA81&lpg=PA81&dq=Hybrid+Poplar+for+the+Colorado+Plateau:+NMSU+Poplar+Research,+Farmington,+New+Mexico&source=bl&ots=F7UMufZGAN&sig=pQzHdlqF_qkrlmaBqjy-juADXks&hl=en&sa=X&ved=2ahUKEwjxP6CztfAhWq8YMKHfSIAOoQ6AEwDnoECAAQ#v=onepage&q=Hybrid%20Poplar%20for%20the%20Colorado%20Plateau%3A%20NMSU%20Poplar%20Research%2C%20Farmington%2C%20New%20Mexico&f=false)
- De Leeuw J., M. Njenga, B. Wagner, and M. Iiyama. (Eds.). 2014. Treesilience: an assessment of the resilience provided by trees in the drylands of Eastern Africa. World Agroforestry Centre (ICRAF). Nairobi, Kenya. 166p.  
<http://www.worldagroforestry.org/downloads/Publications/PDFS/B17611.pdf>
- Njenga M, J. De Leeuw, M.K. O'Neill, P. Ebanyat, M. Kinyanjui, P. Kimeu, H. Adirizak, K. Sijmons, A. Vrieling, M. Malesu, A. Oduor, and P. Dobie. 2014. The need for resilience in the drylands of Eastern Africa. (p5-17). In: De Leeuw J, Njenga M, Wagner B, and Iiyama M. (Eds). 2013. Treesilience: an assessment of the resilience provided by trees in the drylands of Eastern Africa. World Agroforestry Centre (ICRAF). Nairobi, Kenya. 166p.  
<http://www.worldagroforestry.org/downloads/Publications/PDFS/B17611.pdf>
- Oduor A, M. Malesu, P. Kimeu, and M.K. O'Neill. 2014. Runoff water management for agroforestry in Makueni, Kenya. (p119-120). In: De Leeuw J, Njenga M, Wagner B, Iiyama M. (Eds). 2013. Treesilience: an assessment of the resilience provided by trees in the drylands of Eastern Africa. World Agroforestry Centre (ICRAF). Nairobi, Kenya. 166p.  
<http://www.worldagroforestry.org/downloads/Publications/PDFS/B17611.pdf>
- Waugh, W.J., E.P. Glenn, P.H. Charley, M.K. Carroll, B. Maxwell, and M.K. O'Neill. 2011. Helping mother earth heal: Diné College and enhanced natural attenuation research at U.S. Department of Energy uranium processing sites on Navajo Land. (Chapter 6, p119-147). In: Burger, J. (Ed.). Science and Stakeholders: Solutions to Energy and Environmental Issues. Springer Publ. New York, NY. 453p.  
[https://books.google.rw/books?id=ukNXhY9nbfAC&pg=PA119&lpg=PA119&dq=Helping+mother+earth+heal:+Din%C3%A9+College+and+enhanced+natural+attenuation+research+at+U.S.+Department+of+Energy+uranium+processing+sites+on+Navajo+Land&source=bl&ots=owSGyoM-5M&sig=yBtXxCpPfi\\_X6o5mUdTq41gSvMk&hl=en&sa=X&ei=U-ikUeOgCuKVyQHfgYHgDA#v=onepage&q&f=false](https://books.google.rw/books?id=ukNXhY9nbfAC&pg=PA119&lpg=PA119&dq=Helping+mother+earth+heal:+Din%C3%A9+College+and+enhanced+natural+attenuation+research+at+U.S.+Department+of+Energy+uranium+processing+sites+on+Navajo+Land&source=bl&ots=owSGyoM-5M&sig=yBtXxCpPfi_X6o5mUdTq41gSvMk&hl=en&sa=X&ei=U-ikUeOgCuKVyQHfgYHgDA#v=onepage&q&f=false)
- Malesu, Maimbo, Alex Oduor, Kipruto Cherogony, Douglas Nyolei, Charles Gachene, Elijah Biamah, Mick O'Neill, Miyuki Iiyama, and Jephine Mogoi. 2010. Rwanda Irrigation Master Plan. Ministry of Agriculture and Animal Resources (MINAGRI). Republic of Rwanda. 240p.  
<http://www.worldagroforestry.org/downloads/Publications/PDFS/B16738.PDF>

**Publications – Journal Articles, Reports, and Proceedings****2011 – Present**

- Djaman, K., M.K. O'Neill, C.K. Owen, K. Koudahe, and K.A. Lombard. 2018. Evapotranspiration, grain yield, and water productivity of spring oat (*Avena sativa* L.) under semiarid climate. *Agricultural Sciences*, 9.  
[https://file.scirp.org/pdf/AS\\_2018092718203930.pdf](https://file.scirp.org/pdf/AS_2018092718203930.pdf)
- Djaman K., M.K. O'Neill, L. Diop, A. Bodian, S.C. Allen, K. Koudahe, and K.A. Lombard. 2018. Evaluation of the Penman-Monteith and other 34 reference evapotranspiration equations under limited data in a semiarid dry climate. *Theoretical and Applied Climatology*, DOI: [10.1007/s00704-018-2624-0](https://doi.org/10.1007/s00704-018-2624-0)
- Djaman K., K. Koudahe, K.A. Lombard, and M.K. O'Neill. 2018. Sum of hourly vs. daily Penman-Monteith grass-reference evapotranspiration under semiarid and arid climate. *Irrigation and Drainage Systems Engineering*. 7:1. DOI: [10.4172/2168-9768.1000202](https://doi.org/10.4172/2168-9768.1000202)
- Djaman K., K.A. Lombard, K. Koudahe, S.C. Allen, and M.K. O'Neill. 2018. Variability of the ratio of alfalfa to grass reference evapotranspiration under semiarid climate. *Irrigation and Drainage Systems Engineering*. 7:1. DOI: [10.4172/2168-9768.1000204](https://doi.org/10.4172/2168-9768.1000204)
- Djaman K., P.M. Ndiaye, K. Koudahe, A. Bodian, L. Diop, M.K. O'Neill, and S. Irmak. 2018. Spatial and temporal trend in monthly and annual reference evapotranspiration in Madagascar for the 1980-2010 period. *International Journal of Hydrology*, 9(2): 95–105.  
<http://medcraveonline.com/IJH/IJH-02-00058.pdf>
- Djaman, K., M.K. O'Neill, L. Diop, A. Bodian, S.C. Allen, K. Koudahe, and K.A. Lombard. 2018. Comparison of some reference evapotranspiration equations under semiarid conditions with limited climatic data. The 73<sup>rd</sup> SWCS International Annual Conference: Culture, Climate, and Conservation. Jul 29 – Aug 1, 2018. Albuquerque, NM, USA.
- Djaman, K., M.K. O'Neill, C.K. Owen, D. Smeal, K. Koudahe, M.M. West, S.C. Allen, K.A. Lombard, and S. Irmak. 2018. Crop evapotranspiration, irrigation water requirement and water productivity of maize from meteorological data under semiarid climate. *Water*. 10, 405. DOI: [10.3390/w10040405](https://doi.org/10.3390/w10040405).
- Djaman, K., M.K. O'Neill, C.K. Owen, D. Smeal, M.M. West, D. Begay S.C. Allen, K. Koudahe, K.A. Lombard, and S. Irmak, and K. A. Lombard 2018. Long-term winter wheat (*Triticum aestivum* L.) seasonal irrigation amount, evapotranspiration, yield, and water productivity under semiarid climate. *Agronomy* 8:96; DOI [http://dx.doi.org/10.3390/agronomy8060096](https://doi.org/10.3390/agronomy8060096)
- Djaman, K.; O'Neill, M.K.; Owen, C.; Smeal, D.; West, M.; Begay, D.; Angadi, S.V.; Koudahe, K.; Allen, S.; Lombard, K. 2018. Seed yield and water productivity of irrigated winter canola (*Brassica napus* L.) under semiarid climate and high elevation. *Agronomy* 8(6), 90. [doi.org/10.3390/agronomy8060090](https://doi.org/10.3390/agronomy8060090).
- Ghimire, R., B. Ghimire, A.O. Mesbah, O.J. Idowu, M.K. O'Neill, S.V. Angadi and M.K. Shukla. 2018. Current status, opportunities, and challenges of cover cropping for sustainable dryland farming in the Southern Great Plains. *Journal of Crop Improvement*. DOI: [10.1080/15427528.2018.1471432](https://doi.org/10.1080/15427528.2018.1471432).
- O'Neill, M.K., Lillywhite, J., Hawkes, G., Trillanes, M., Djaman, K. 2018. Opportunities to produce canola in northern New Mexico: results of field variety trials. *Research Report 793*.

- Agricultural Experiment Station, New Mexico State University. Las Cruces, NM.  
<http://aces.nmsu.edu/pubs/research/agronomy/RR793/welcome.html>
- O'Neill, M.K., West, M.M., Smeal D., Joe J., Allen S., Sarpong K., Lombard K. 2018. Forty-eight years of meteorological data (1969-2016): NMSU Agricultural Science Center at Farmington. Research Bulletin 809 . Agricultural Experiment Station, New Mexico State University. Las Cruces, NM.  
[http://aces.nmsu.edu/pubs/research/weather\\_climate/BL809/welcome.html](http://aces.nmsu.edu/pubs/research/weather_climate/BL809/welcome.html)
- Sarpong, K.A., A. Salazar, A. Ortega, K. Telles, K. Djaman, M.K. O'Neill, D. Valles-Rosales, C.E. Brewer. 2018. Pyrolysis of wood excelsior residues for biochar and renewable energy production. ASABE Annual International Meeting. Detroit, MI.  
doi:10.13031/aim.201801155. <https://elibrary.asabe.org/abstract.asp?aid=49387>
- Allen, S. C., O'Neill, M.K., Lombard, K.A., Heyduck, R.F. 2017. Hybrid Poplar: A Potential Multipurpose Tree for Woody Biomass in Semi-arid Climates. November 15-18, 2017. Annual Conference, Society of American Foresters. Albuquerque, NM.
- Djaman K., Koudahe K., Allen S., O'Neill M., Irmak S. 2017. Validation of Valiantzas' Reference Evapotranspiration Equation under Different Climatic Conditions. Irrigation & Drainage Systems Engineering. Vol 6:3. doi: 10.4172/2168-9768.1000196.  
<https://www.omicsonline.org/open-access/validation-of-valiantzas-reference-evapotranspiration-equation-under-different-climatic-conditions-2168-9768-1000196.pdf>
- Lauriault, L.M., Ray, I., Pierce, C., Burney, O., Flynn, R. P., Marsalis, M.A., O'Neill, M.K., Cunningham, A., Havlik, C., West, M. 2017. The 2017 New Mexico Alfalfa Variety Test Report. Agricultural Experiment Station and Cooperative Extension Service, New Mexico State University. Las Cruces, NM. [http://aces.nmsu.edu/pubs/variety\\_trials/AVT17.pdf](http://aces.nmsu.edu/pubs/variety_trials/AVT17.pdf)
- O'Neill, M.K., West, M.M., Smeal D., Joe J., Allen S., Sarpong K., Lombard K., Forty-eight Years of Meteorological Data (1969-2016): NMSU Agricultural Science Center at Farmington. Abstract 25. Aug 16-16, 2017 62<sup>nd</sup> Annual New Mexico Water Conference. NM Water Resources Research Institute (WRRRI). Socorro, NM. p. 25.  
<https://nmwaterconference.nmwrri.nmsu.edu/2017/posters/poster-abstracts>
- O'Neill, M.K., West, M.M. 2017. Fiftieth Annual Progress Report: 2016 Cropping Season. NMSU Agricultural Science Center at Farmington. Agricultural Experiment Station and Cooperative Extension Service, New Mexico State University. Las Cruces, NM.
- Allen, S.C., O'Neill, M.K., Lombard, K.A., Heyduck, R.F. 2016. Adaptability and Productivity of Hybrid Poplars in a Semi-arid Climate. October 5, 2016. 61<sup>st</sup> Annual New Mexico Water Conference. Where Does all The Water Go? History, Hydrology and Management of New Mexico Scarce Waters. Silver City, NM.
- Lauriault, L.M., Ray, I., Pierce, C., Burney, O., Flynn, R.P., Marsalis, M.A., O'Neill, M.K., Cunningham, A., Havlik, C., West, M. 2016. The 2016 New Mexico Alfalfa Variety Test Report. Agricultural Experiment Station and Cooperative Extension Service, New Mexico State University. Las Cruces, NM. [http://aces.nmsu.edu/pubs/variety\\_trials/AVT16.pdf](http://aces.nmsu.edu/pubs/variety_trials/AVT16.pdf)
- Marsalis, M.A., Flynn, R.P., Lauriault, L.M., Mesbah, A., O'Neill, M.K. 2016. New Mexico 2015 Corn and Sorghum Performance Tests. Agricultural Experiment Station and Cooperative Extension Service, New Mexico State University. Las Cruces, NM.  
[http://aces.nmsu.edu/pubs/variety\\_trials/15CornSorghumRpt.pdf](http://aces.nmsu.edu/pubs/variety_trials/15CornSorghumRpt.pdf)

- O'Neill, M.K. 2016. Agroforestry in the Southwest: Experiences at the NMSU Agricultural Science Center. April 28, 2016. Agroforestry Horizons: Experiences, Challenges, and Reflections, USDA National Agroforestry Center, International Programs Office. Washington, DC.  
<https://www.fs.usda.gov/nac/documents/multimedia/proceedings/agroforestry-horizons/Mick-O'Neill-New-Mexico-State-University.pdf>
- O'Neill, M.K. 2016. Development Work in a Conflict Zone. November 14, 2016. International Agricultural Development, NMSU Agricultural and Extension Education, Las Cruces, NM.
- O'Neill, M.K. 2016. Ramification of Climate Change on Food Security. July 18-29, 2016. La Salle Summer Academy, Universidad de La Salle. Bogota, Colombia.
- O'Neill, M.K. 2016. Ramifications of Climate Change on World Food Security. December 5-9, 2016. Extension Climate Change Workshop. NMSU Cooperative Extension Service. Las Cruces, NM
- O'Neill, M.K., Allen, S. C., Heyduck, R. F. 2016. *Poplar Phytoremediation Study at an Abandoned Oil Refinery Site in Northwestern New Mexico*. April 11-13, 2016. National Working Forum: Managing Poplar and Willow for Environmental Benefits and the Renewable Fuels Industry. Portland, OR.  
Powerpoint Presentation: [https://s3.wp.wsu.edu/uploads/sites/2182/2016/04/2016-Forum-presentation\\_Oneil.pdf](https://s3.wp.wsu.edu/uploads/sites/2182/2016/04/2016-Forum-presentation_Oneil.pdf).  
Video Presentation: <http://hardwoodbiofuels.org/video/poplar-willow-forum-oneil>
- O'Neill, M.K., Menking, C., Stringam, B., Smeal, D., Dubois, D.W., Anzola-Prodo, G., Triana, J., Sosa, M., 2016. New Mexico State University Partners with the University of La Salle – Bogotá in a Unique Educational Experiment for Community Transformation. November 6-9, 2016. ASA, CSSA and SSSA International Annual Meetings. Resilience Emerging from Scarcity and Abundance. Phoenix, AZ.  
Presentation Abstract:  
<https://scisoc.confex.com/scisoc/2016am/webprogram/Paper101328.html>  
Video Presentation:  
<https://scisoc.confex.com/scisoc/2016am/videogateway.cgi/id/27068?recordingid=27068>
- O'Neill, M.K., West, M.M. 2016. Forty-ninth Annual Progress Report: 2015 Cropping Season. NMSU Agricultural Science Center at Farmington. Agricultural Experiment Station and Cooperative Extension Service, New Mexico State University. Las Cruces, NM.
- Lauriault, Leonard, Ian Ray, Chris Pierce, Owen Burney, Robert Flynn, Mark Marsalis, Mick O'Neill, and Margaret West. 2015. The 2015 New Mexico Alfalfa Variety Test Report. Agricultural Experiment Station Variety Test Reports. New Mexico State University. Agricultural Experiment Station and Cooperative Extension Service. College of Agricultural, Consumer and Environmental Sciences. Las Cruces, NM. 17p.  
[http://aces.nmsu.edu/pubs/variety\\_trials/AVT15.pdf](http://aces.nmsu.edu/pubs/variety_trials/AVT15.pdf)
- Lauriault, Leonard, Ian Ray, Chris Pierce, Owen Burney, Robert Flynn, Mark Marsalis, Mick O'Neill, and Curtis Owen. 2015. The 2014 New Mexico Alfalfa Variety Test Report. Agricultural Experiment Station Variety Test Reports. New Mexico State University. Agricultural Experiment Station and Cooperative Extension Service. College of Agricultural, Consumer and Environmental Sciences. Las Cruces, NM. 14p.  
[http://aces.nmsu.edu/pubs/variety\\_trials/AVT14.pdf](http://aces.nmsu.edu/pubs/variety_trials/AVT14.pdf)

- Marsalis, M.A., R.P. Flynn, L.M., Lauriault, A. Mesbah, and M.K. O'Neill. 2015. New Mexico 2014 Corn and Sorghum Performance Tests. Agricultural Experiment Station Variety Test Reports. Agricultural Experiment Station and Cooperative Extension Service. College of Agricultural, Consumer and Environmental Sciences. New Mexico State University. Las Cruces, NM. 41p. [http://aces.nmsu.edu/pubs/variety\\_trials/14CornSorghumRpt.pdf](http://aces.nmsu.edu/pubs/variety_trials/14CornSorghumRpt.pdf)
- O'Neill, MK. 2015. Trip Report. IV World Forestry Congress - Forests and People: Investing in a Sustainable Future. Agricultural Science Center at Farmington. Agricultural Experiment Station. New Mexico State University. Las Cruces, NM.
- O'Neill MK, SC Allen, RF Heyduck, KA Lombard, D Smeal and RN Arnold. 2015. Hybrid poplar: a potential multipurpose tree for drip irrigation in semi-arid regions. (Proceedings Paper). September 7-11, 2015. FAO 14th World Forestry Congress, Durban, South Africa.
- O'Neill MK, SC Allen, RF Heyduck, KA Lombard, D Smeal and RN Arnold. 2015. Hybrid poplar: a potential multipurpose tree for drip irrigation in semi-arid regions. September 7-11, 2015. FAO 14th World Forestry Congress, Durban, South Africa.
- O'Neill MK, SC Allen, RF Heyduck, KA Lombard, D Smeal and RN Arnold. 2015. Hybrid Poplar: A Potential Drip-irrigated Plantation Tree for the American Southwest. October 8-9, 2015. 60<sup>th</sup> Annual New Mexico Water Conference. Coloring outside the lines: Can science help us be creative and innovative in Managing our water? New Mexico Water Resources Institute. Taos, NM.
- O'Neill, M.K. and C.H. Menking. 2015. Final Evaluation Report for the NMSU-La Salle Partnership: Utopia Project 2014-2015. NMSU International and Border Programs. Las Cruces, NM.
- O'Neill, Mick, Dan Smeal, Blair Stringam, James Fulton, Jimmy Maynes, Sativa Cruz, Megan Stovall. 2015. Utopia Project: NMSU Participation in Bogotá and Yopal, Colombia (Nov 2014). April 10, 2015. NMSU Plant and Environmental Sciences Departmental Seminar.
- Smeal, D., B. Stringam, and M.K. O'Neill. 2015. Preliminary Irrigation Plan: Universidad de La Salle – Bogotá, Colombia, Utopia Campus Cacao Plantation. ULS Office of International Programs and NMSU International and Border Programs. Las Cruces, NM.
- O'Neill, M.K. and M.M. West (eds.) 2015. Forty-eight Annual Progress Report: 2014 Cropping Season. With contributions from R.N. Arnold, D. Smeal, K.A. Lombard, S. Allen, and C.K. Owen. NMSU Agricultural Science Center at Farmington. Agricultural Experiment Station and Cooperative Extension Service. College of Agricultural, Consumer and Environmental Sciences. New Mexico State University. Las Cruces, NM. 202p.
- Allen, Samuel C., Michael K. O'Neill, Robert F. Heyduck, Kevin A. Lombard, Dan Smeal, Richard N. Arnold. 2014. Hybrid Poplar (*Populus* spp.) Provenance Trials in a High Desert Region of New Mexico (2002-2014). Society of American Foresters Annual Conference. October 8-11, 2014. Salt Lake City, Utah.
- Arnold, R.N., O'Neill, M.K., Smeal, D., Lombard, K.A., and M.M. West. 2014. Pest control in crops grown in northwestern New Mexico, 2013. ADR 100-2013. (pp. 16). NMSU Cooperative Extension Service. Las Cruces, NM.  
<http://aces.nmsu.edu/pubs/annualdatareports/docs/ADR100-2013.pdf>
- Lauriault, Leonard, Ian Ray, Chris Pierce, Robert Flynn, Mark Marsalis, Mick O'Neill, Curtis Owen, and John Idowu. 2014. The 2013 New Mexico Alfalfa Variety Test Report. Agricultural Experiment Station Variety Test Reports. New Mexico State University.

- Agricultural Experiment Station and Cooperative Extension Service. College of Agricultural, Consumer and Environmental Sciences. Las Cruces, NM. 15p.  
[http://aces.nmsu.edu/pubs/variety\\_trials/2013AlfalfaVarietyReport.pdf](http://aces.nmsu.edu/pubs/variety_trials/2013AlfalfaVarietyReport.pdf)
- Marsalis, M.A., R.P. Flynn, L.M., Lauriault, A. Mesbah, and M.K. O'Neill. 2014. New Mexico 2013 Corn and Sorghum Performance Tests. Agricultural Experiment Station Variety Test Reports. Agricultural Experiment Station and Cooperative Extension Service. College of Agricultural, Consumer and Environmental Sciences. New Mexico State University. Las Cruces, NM. 43p. [http://aces.nmsu.edu/pubs/variety\\_trials/13CornSorghum.pdf](http://aces.nmsu.edu/pubs/variety_trials/13CornSorghum.pdf)
- O'Neill, M.K., S.C. Allen, R.F. Heyduck, K.A. Lombard, D. Smeal, and R.N. Arnold. 2014. Hybrid poplar (*Populus* spp.) adaptation to a semi-arid region: results from Northwest New Mexico (2002–2011). *Agroforestry Systems* 88(3):387-396.  
<http://link.springer.com/article/10.1007/s10457-014-9694-5>
- O'Neill, M.K., C.K. Owen, and S.C. Allen. 2014. Winter Canola Testing in the High Elevation and Irrigated Lands of New Mexico. U.S. Canola Association Research Conference. ASA, CSSA, SSSA Annual Meeting Nov. 2-5, 2014. Long Beach, CA.
- Lauriault, Leonard, Ian Ray, Chris Pierce, Robert Flynn, Mark Marsalis, Mick O'Neill, Curtis Owen, and John Idowu. 2014. The 2013 New Mexico Alfalfa Variety Test Report. Agricultural Experiment Station Variety Test Reports. New Mexico State University. Agricultural Experiment Station and Cooperative Extension Service. College of Agricultural, Consumer and Environmental Sciences. Las Cruces, NM. 15p.  
[http://aces.nmsu.edu/pubs/variety\\_trials/2013AlfalfaVarietyReport.pdf](http://aces.nmsu.edu/pubs/variety_trials/2013AlfalfaVarietyReport.pdf)
- Marsalis, M.A., R.P. Flynn, L.M., Lauriault, A. Mesbah, and M.K. O'Neill. 2014. New Mexico 2013 Corn and Sorghum Performance Tests. Agricultural Experiment Station Variety Test Reports. Agricultural Experiment Station and Cooperative Extension Service. College of Agricultural, Consumer and Environmental Sciences. New Mexico State University. Las Cruces, NM. 43p. [https://aces.nmsu.edu/pubs/variety\\_trials/13CornSorghum.pdf](https://aces.nmsu.edu/pubs/variety_trials/13CornSorghum.pdf)
- O'Neill, M.K. and M.M. West (eds.) 2014. Forty-seventh Annual Progress Report: 2013 Cropping Season. With contributions from R.N. Arnold, D. Smeal, K.A. Lombard, S. Allen, and C.K. Owen. NMSU Agricultural Science Center at Farmington. Agricultural Experiment Station and Cooperative Extension Service. College of Agricultural, Consumer and Environmental Sciences. New Mexico State University. Las Cruces, NM. 187p.
- Smeal, D., O'Neill, M.K., Owen, C.K., West, M.M., Allen, S.C., Arnold, R.N. 2014. Forty-Three Years (1969-2011) of Climatological Data: NMSU's Agricultural Science Center at Farmington, NM. Bulletin 806. New Mexico State University, Agricultural Experiment Station. College of Agricultural, Consumer and Environmental Sciences. Las Cruces, NM. 44p.
- Arnold, R.N., O'Neill, M.K., Smeal, D., Lombard, K.A. 2013. Pest control in crops grown in northwestern New Mexico, 2012. New Mexico State University, Agricultural Experiment Station. College of Agricultural, Consumer and Environmental Sciences. Las Cruces, NM. 16p. <http://aces.nmsu.edu/pubs/annualdatareports/docs/ADR2012.pdf>
- Arnold, R.N., O'Neill, M.K., Smeal, D., Lombard, K.A. 2013. Pest control in crops grown in northwestern New Mexico, 2011. New Mexico State University, Agricultural Experiment Station. College of Agricultural, Consumer and Environmental Sciences. Las Cruces, NM. 16p. <http://aces.nmsu.edu/pubs/annualdatareports/docs/ADR2011.Weeds.pdf>

- Lauriault, Leonard, Ian Ray, Chris Pierce, Robert Flynn, Mick O'Neill, Curtis Owen, Tom Place, and John Idowu. 2013. The 2012 New Mexico Alfalfa Variety Test Report. Agricultural Experiment Station Variety Test Reports. New Mexico State University. Agricultural Experiment Station and Cooperative Extension Service. College of Agricultural, Consumer and Environmental Sciences. Las Cruces, NM. 12p.  
[http://aces.nmsu.edu/pubs/variety\\_trials/AlfalfaVar2012.pdf](http://aces.nmsu.edu/pubs/variety_trials/AlfalfaVar2012.pdf)
- Lombard, K.A., B. Maier, F.J. Thomas, M.K. O'Neill, S.C. Allen, and R.F. Heyduck. 2013. Wine grape cultivar performance in the Four Corners Region of New Mexico in 2010–12. *HortTechnology* 23(5):699-709.  
<http://horttech.ashspublications.org/content/23/5/699.full.pdf+html>
- Marsalis, M.A., R.E. Kirksey, R.P. Flynn, M.K. O'Neill, L.M., Lauriault, and M. Place, 2013. New Mexico 2012 Corn and Sorghum Performance Tests. Agricultural Experiment Station Variety Test Reports. Agricultural Experiment Station and Cooperative Extension Service. College of Agricultural, Consumer and Environmental Sciences. New Mexico State University. Las Cruces, NM. 35p.  
[http://aces.nmsu.edu/pubs/variety\\_trials/12CornSorghum.pdf](http://aces.nmsu.edu/pubs/variety_trials/12CornSorghum.pdf)
- O'Neill M.K., R.F. Heyduck, S.C. Allen, K.A. Lombard, D. Smeal, and R.N. Arnold. 2013. Ten Years of Poplar Research at NMSU's Agricultural Science Center at Farmington. Bulletin 805. Agricultural Experiment Station. College of Agricultural, Consumer and Environmental Sciences. New Mexico State University. Las Cruces, NM. 16p.  
<http://aces.nmsu.edu/pubs/research/horticulture/BL805.pdf>
- O'Neill, M.K. and M.M. West (eds.) 2013. Forty-sixth Annual Progress Report: 2012 Cropping Season. With contributions from R.N. Arnold, D. Smeal, K.A. Lombard, S. Allen, C.K. Owen, and K.D. Kohler. NMSU Agricultural Science Center at Farmington. Agricultural Experiment Station and Cooperative Extension Service. College of Agricultural, Consumer and Environmental Sciences. New Mexico State University. Las Cruces, NM. 187p.
- Sammis, Ted, Mick O'Neill, and Junming Wang. 2013. [Estimating economic value of applied research projects](#). Research Report 781. Agricultural Experiment Station, New Mexico State University. Las Cruces, NM. 12p. <http://aces.nmsu.edu/pubs/research/economics/RR781.pdf>
- Shock, C., R. Flock, E. Feibert, A. Pereira, and M.K O'Neill. 2013. Drip irrigation guide for growers of hybrid poplar. Cooperative Extension Service Pub. EM 8902 (Revised 2013). Oregon State University. Corvallis, OR. 7p. <https://catalog.extension.oregonstate.edu/em8902>
- Arnold, Richard N., Daniel Smeal, Kevin A. Lombard, Michael K. O'Neill, Samuel C. Allen, Margaret West, and Roselyn Yazzie 2012. Broadleaf weed control in dry beans (*Phaseolus vulgaris*) with preemergence applications of Valor alone or in combination from 2004 to 2008. Research Bulletin 804. Agricultural Experiment Station, College of Agricultural, Consumer and Environmental Sciences. New Mexico State University. Las Cruces, NM. 4p.  
<http://aces.nmsu.edu/pubs/research/agronomy/BL804.pdf>
- Arnold, R.N., O'Neill, M.K., Smeal, D. 2012. Pest control in crops grown in northwestern New Mexico, 2009. NMSU Annual Data Report 100-2009. Cooperative Extension Service, College of Agricultural, Consumer and Environmental Sciences. New Mexico State University. Las Cruces, NM. 16p. [http://aces.nmsu.edu/pubs/annualdatareports/docs/ADR\\_2009.pdf](http://aces.nmsu.edu/pubs/annualdatareports/docs/ADR_2009.pdf)
- Arnold, R.N., O'Neill, M.K., Smeal, D. and Lombard, K.A. 2012. Pest control in crops grown in northwestern New Mexico, 2008. NMSU Annual Data Report 100-2008. Cooperative



- Extension Service, College of Agricultural, Consumer and Environmental Sciences. New Mexico State University. Las Cruces, NM. 20p.  
[http://aces.nmsu.edu/pubs/annualdatareports/docs/ADR\\_2008.pdf](http://aces.nmsu.edu/pubs/annualdatareports/docs/ADR_2008.pdf)
- Lauriault, Leonard, Ian Ray, Chris Pierce, Robert Flynn, Mick O'Neill, Tom Place, and John Idowu. 2012. The 2011 New Mexico Alfalfa Variety Test Report. Agricultural Experiment Station Variety Test Reports. Agricultural Experiment Station and Cooperative Extension Service. New Mexico State University. Las Cruces, NM. 13p.  
[http://aces.nmsu.edu/pubs/variety\\_trials/Avt11.pdf](http://aces.nmsu.edu/pubs/variety_trials/Avt11.pdf)
- Marsalis, M.A., R.E. Kirksey, F.E. Contreras-Govea, R.P. Flynn, M.K. O'Neill, L.M., Lauriault, and M. Place, 2012. New Mexico 2011 Corn and Sorghum Performance Tests. Agricultural Experiment Station Variety Test Reports. Agricultural Experiment Station and Cooperative Extension Service. New Mexico State University. Las Cruces, NM. 50p.  
[http://aces.nmsu.edu/pubs/variety\\_trials/11CornSorghumRpt.pdf](http://aces.nmsu.edu/pubs/variety_trials/11CornSorghumRpt.pdf)
- O'Neill, M.K. and M.M. West (eds.) 2012. Forty-fifth Annual Progress Report: 2011 Cropping Season. With contributions from R.N. Arnold, D. Smeal, K.A. Lombard, S. Allen, C.K. Owen, and K.D. Kohler. NMSU Agricultural Science Center at Farmington. Agricultural Experiment Station and Cooperative Extension Service. New Mexico State University. Las Cruces, NM. 233p.
- Stamm, M., Berrada, A., Buck, J., Cabot, P., Classen, M., Cramer, G., Dooley, S., Godsey, C., Heer, W., Holman, J., Johnson, J., Kochenower, R., Krall, J., Ladd, D., Morre, J., O'Neill, M.K., Pearson, C., Phillips, D., Rife, C., Santra, D., Sidwell, R., Sij, J., Starner, D., Wiebold, W. 2012. Registration of 'Riley' Winter Canola. *Journal of Plant Registrations* Vol. 6 (3), p. 243-245.
- Arnold, R.N., O'Neill, M.K., Smeal, D. 2011. Pest control in crops grown in Northwestern New Mexico, 2007. NMSU Annual Data Report 100-2007. Cooperative Extension Service, College of Agricultural, Consumer and Environmental Sciences. New Mexico State University. Las Cruces, NM. Annual Data Report 100-2007. New Mexico State University. Las Cruces, NM. 12p. [https://aces.nmsu.edu/pubs/annualdatareports/docs/ADR\\_2007.pdf](https://aces.nmsu.edu/pubs/annualdatareports/docs/ADR_2007.pdf)
- Arnold, R.N., O'Neill, M.K., Smeal, D. 2011. Pest control in crops grown in northwestern New Mexico, 2006. NMSU Annual Data Report 100-2006. Cooperative Extension Service, College of Agricultural, Consumer and Environmental Sciences. New Mexico State University. Las Cruces, NM. 20p. [http://aces.nmsu.edu/pubs/annualdatareports/docs/ADR\\_2006.pdf](http://aces.nmsu.edu/pubs/annualdatareports/docs/ADR_2006.pdf)
- Arnold, R.N., O'Neill, M.K., Smeal, D. 2011. Pest control in crops grown in northwestern New Mexico, 2005. NMSU Annual Data Report 100-2005. Cooperative Extension Service, College of Agricultural, Consumer and Environmental Sciences. New Mexico State University. Las Cruces, NM. 12p. [http://aces.nmsu.edu/pubs/annualdatareports/docs/ADR\\_100\\_2005.pdf](http://aces.nmsu.edu/pubs/annualdatareports/docs/ADR_100_2005.pdf)
- Arnold, R.N., O'Neill, M.K., Smeal, D. 2011. Pest control in crops grown in northwestern New Mexico, 2004. NMSU Annual Data Report 100-2004. Cooperative Extension Service, College of Agricultural, Consumer and Environmental Sciences. New Mexico State University. Las Cruces, NM. 12p. [http://aces.nmsu.edu/pubs/annualdatareports/docs/ADR\\_2004.pdf](http://aces.nmsu.edu/pubs/annualdatareports/docs/ADR_2004.pdf)
- Lauriault, Leonard, Ian Ray, Chris Pierce, Robert Flynn, Mick O'Neill, Tom Place, and John Idowu. 2011. The 2010 New Mexico Alfalfa Variety Test Report. Agricultural Experiment Station Variety Test Reports. Agricultural Experiment Station and Cooperative Extension

- Service. New Mexico State University. Las Cruces, NM. 14p.  
[http://aces.nmsu.edu/pubs/variety\\_trials/avt10.pdf](http://aces.nmsu.edu/pubs/variety_trials/avt10.pdf)
- Lombard, K.A., Forster-Cox, S., Huttlinger, K.W., Smeal, D., Beresford, S.A.A., O'Neill, M.K. 2011. Gardens for health: Development of a model diabetes intervention project among an indigenous tribe in northwest New Mexico. *Acta Hort.* 911:311-316.  
[http://www.actahort.org/books/911/911\\_35.htm](http://www.actahort.org/books/911/911_35.htm)
- Lombard, Kevin, Mick O'Neill, April Ulery, John Mexal, Blake Onken, Sue Forster-Cox, and Ted Sammis. 2011. Fly ash and composted biosolids as a source of Fe for hybrid poplar: a greenhouse study. *Applied and Environmental Soil Science*. Volume 2011. Article ID 475185. 11p.
- Lombard, K., M.K. O'Neill, R. Heyduck, B. Onken, A. Ulery, J. Mexal, and A. Unc, 2011. Composted biosolids as a source of iron for hybrid poplars (*Populus* sp) grown in northwest New Mexico. *Agroforestry Systems*, 81 (1):45- 56.  
<http://www.hindawi.com/journals/aess/2011/475185/>
- Marsalis, M.A., R.E. Kirksey, F.E. Contreras-Govea, R. Flynn, M.K. O'Neill, L.M. Lauriault, and M. Place. 2011. New Mexico 2010 Corn and Sorghum Performance Tests. Agricultural Experiment Station Variety Test Reports. Agricultural Experiment Station and Cooperative Extension Service. New Mexico State University. Las Cruces, NM. 42p.  
[http://aces.nmsu.edu/pubs/variety\\_trials/10CornSorghum.pdf](http://aces.nmsu.edu/pubs/variety_trials/10CornSorghum.pdf)
- O'Neill, M.K. and M.M. West (eds.) 2011. Forty-fourth Annual Progress Report: 2010 Cropping Season. With contributions from R.N. Arnold, D. Smeal, R.F. Heyduck, C.K. Owen, K.D. Kohler, K.A. Lombard. NMSU Agricultural Science Center at Farmington. Agricultural Experiment Station and Cooperative Extension Service. New Mexico State University. Las Cruces, NM. 240p.
- Smeal, D., Lombard, K. A., West, M., O'Neill, M.K., Arnold, R.N. 2011. Low-Pressure Drip Irrigation for Small Plots and Urban Landscapes. Agricultural Experiment Station Research Report. Las Cruces, NM. 16p. [http://aces.nmsu.edu/pubs/research/agmech\\_eng/rr-773/welcome.html](http://aces.nmsu.edu/pubs/research/agmech_eng/rr-773/welcome.html)
- Stamm, M., Buck, J., Godsey, C., Heer, W., Holman, J., Johnson, J., Krall, J., O'Neill, M.K., Rife, C., Santra, D., Sij, J., Spradlin, D., Starner, D. 2011. L-929. Riley Canola. Kansas State University, Agricultural Experiment Station, and Cooperative Extension Service. Manhattan, KS. 2p. <https://www.bookstore.ksre.ksu.edu/pubs/L929.pdf>
- 2001 – 2010**
- Arnold, R.N., D. Smeal, M.K. O'Neill, K.A. Lombard, R.F. Heyduck, S. Henke, D. Wirth, D. Mankiewicz, R. Wirtanen, S. Katirgis, M. Lepich, F. MacDonald, A. Sattler, and M. Johnson. 2010. Using coal bed methane produced water from well sites for native and non-native grass stand establishment. Research Report 771. Agricultural Experiment Station Variety Test Reports. New Mexico State University. Las Cruces, NM.  
[http://aces.nmsu.edu/pubs/research/livestock\\_range/RR771/](http://aces.nmsu.edu/pubs/research/livestock_range/RR771/)
- Lombard, K.A., M.K. O'Neill, J.G. Mexal, A.L. Ulery, B.M. Onken, G. Bettmann, and R.F. Heyduck. 2010. Can soil plant analysis development (SPAD) values predict chlorophyll and total Fe in hybrid poplar? *Agroforestry Systems* 78:1-11.  
<http://www.springerlink.com/content/p166456227817151/fulltext.pdf>

- Lauriault, L.M., I.M. Ray, C.A. Pierce, R.P. Flynn, M.K. O'Neill, and T. Place. 2010. The 2009 New Mexico Alfalfa Variety Test Report. Agricultural Experiment Station Variety Test Reports. New Mexico State University. Las Cruces, NM. 20p.  
[https://aces.nmsu.edu/pubs/variety\\_trials/var09.pdf](https://aces.nmsu.edu/pubs/variety_trials/var09.pdf)
- Marsalis, M.A., R.E. Kirksey, F.E. Contreras-Govea, L. Carrasco, M.K. O'Neill, L.M. Lauriault, and M. Place. 2010. New Mexico 2009 Corn and Sorghum Performance Tests. Agricultural Experiment Station Variety Test Reports. New Mexico State University. Las Cruces, NM. 56p. [http://aces.nmsu.edu/pubs/variety\\_trials/09CornSorghum.pdf](http://aces.nmsu.edu/pubs/variety_trials/09CornSorghum.pdf)
- O'Neill, Mick, Rick Arnold, Rob Heyduck, Kevin Lombard, and Dan Smeal. 2010. Hybrid Poplar in Arid Regions - The Case for a Versatile Clone: OP-367. September 20-25, 2010. Fifth International Poplar Symposium. Orvieto, Italy.
- O'Neill, M.K., C. Shock, K.A. Lombard, R. Heyduck, E. Feibert, D. Smeal, R.N. Arnold. 2010. Hybrid poplar (*Populus* spp.) selections for arid and semi-arid intermountain of the western United States. *Agroforestry Systems* 79:409-418.  
<https://link.springer.com/article/10.1007/s10457-010-9286-y>
- O'Neill, M.K. and M.M. West (eds.) 2010. Forty-third Annual Progress Report: 2009 Cropping Season. With contributions from R.N. Arnold, D. Smeal, R.F. Heyduck, C.K. Owen, K.D. Kohler, and K.A. Lombard. NMSU Agricultural Science Center at Farmington. Agricultural Experiment Station and Cooperative Extension Service. New Mexico State University. Las Cruces, NM. 249p.
- Arnold, R.N., D. Smeal, M.K. O'Neill, K.A. Lombard, R.F. Heyduck, S. Henke, D. Wirth, J. Zent, R. Wirtanen, D. Craddock, S. Katirgis, and M. Lepich. 2009. Revegetation of disturbed well sites with selected cool season native and non-native grasses for stand establishment in the Intermountain Region of northwest New Mexico. Agricultural Experiment Station Research Report 768. Agricultural Experiment Station and Cooperative Extension Service. New Mexico State University. Las Cruces, NM. 4p.  
<http://aces.nmsu.edu/pubs/research/agronomy/RR%20768.pdf>
- Corbett, J.D. and M.K. O'Neill. 2009. Interactive Agricultural Information System: Weather Surfaces. August 23 – 28 2009. Second World Agroforestry Congress. Agroforestry- the Future of Global Land Use. Nairobi, Kenya.
- Lombard, Kevin, Mick O'Neill, Robert Heyduck, Blake Onken, April Ulery, John Mexal, Dan Smeal, and Rick Arnold. 2009. Composted biosolids as a source of iron for hybrid poplars (*Populus* sp) grown in Northwest New Mexico. August 23 – 28 2009. Second World Agroforestry Congress. Agroforestry- the Future of Global Land Use. Nairobi, Kenya.
- Lauriault, L.M., I.M. Ray, C.A. Pierce, R.P. Flynn, M.A. Marsalis, M.K. O'Neill, and T. Place. 2009. The 2008 New Mexico Alfalfa Variety Test Report. Agricultural Experiment Station Variety Test Reports. New Mexico State University. Las Cruces, NM. 20p.  
[http://aces.nmsu.edu/pubs/variety\\_trials/var08.pdf](http://aces.nmsu.edu/pubs/variety_trials/var08.pdf)
- Malesu, M.M., M.K. O'Neill, A.R. Oduor, M. Nyabenge, F. Place, C.K.K. Gachene, K. Shepherd, M. Kroma, E.K. Biamah R.K.K. Cherogony, and D. Nyolei. 2009. Biophysical and Socio-economic Studies for the Development of a Rwandan Irrigation Master Plan. August 23 – 28 2009. Second World Agroforestry Congress. Agroforestry- the Future of Global Land Use. Nairobi, Kenya.

- Marsalis, M.A., R.E. Kirksey, L. Carrasco, F.E. Contreras-Govea, M.K. O'Neill, L.M. Lauriault, and M. Place. 2009. New Mexico 2008 Corn and Sorghum Performance Tests. Agricultural Experiment Station Variety Test Reports. New Mexico State University. Las Cruces, NM. 66p. [http://aces.nmsu.edu/pubs/variety\\_trials/08sorghum.pdf](http://aces.nmsu.edu/pubs/variety_trials/08sorghum.pdf)
- O'Neill, M.K., C.C. Shock, K.A. Lombard, R. Heyduck, E. Feibert, D. Smeal, and R.N. Arnold. 2009. Hybrid Poplar Production in the Semi-arid Intermountain Western United States. August 23 – 28 2009. Second World Agroforestry Congress. Agroforestry- the Future of Global Land Use. Nairobi, Kenya.
- O'Neill, M.K. and M.M. West (eds.) 2009. Forty-second Annual Progress Report: 2008 Cropping Season. With contributions from R.N. Arnold, D. Smeal, R.F. Heyduck, C.K. Owen, K.D. Kohler, and K.A. Lombard. NMSU Agricultural Science Center at Farmington. Agricultural Experiment Station and Cooperative Extension Service. New Mexico State University. Las Cruces, NM. 266.
- Hathorn, G., M.K. O'Neill, R.N. Arnold, D. Smeal, and C. Owen. 2008. Field crop, variety, and fertilizer recommendations. Cooperative Extension Service and Agricultural Experiment Station. New Mexico State University. Las Cruces, NM.
- Lauriault, L.M., I.M. Ray, C.A. Pierce, R.P. Flynn, M.A. Marsalis, M.K. O'Neill and T. Place. 2008. The 2007 New Mexico Alfalfa Variety Test Report. Agricultural Experiment Station. New Mexico State University. Las Cruces, NM. 18p. [http://cahe.nmsu.edu/pubs/variety\\_trials/avt07.pdf](http://cahe.nmsu.edu/pubs/variety_trials/avt07.pdf)
- Marsalis, M.A., R.E. Kirksey, L. Carrasco, R. Flynn, M.K. O'Neill, L.M. Lauriault, M. Place. 2008. New Mexico 2007 Corn and Sorghum Performance Tests. Agricultural Experiment Station Variety Test Reports. New Mexico State University. Las Cruces, NM. 65p. [http://cahe.nmsu.edu/pubs/variety\\_trials/avt07.pdf](http://cahe.nmsu.edu/pubs/variety_trials/avt07.pdf)
- O'Neill, M.K., R.F. Heyduck, K.A. Lombard, D. Smeal, R.N. Arnold, and C. Owen. 2008. Bioenergy crop production in the Four Corner region. New Mexico Journal of Science 45:41-51. [http://www.nmas.org/uploads/2/4/3/3/24330698/nmjs\\_2008\\_v-45\\_no-1\\_full.pdf](http://www.nmas.org/uploads/2/4/3/3/24330698/nmjs_2008_v-45_no-1_full.pdf)
- O'Neill, M.K. and M.M. West (eds.) 2008. Forty-first Annual Progress Report: 2007 Cropping Season. With contributions from R.N. Arnold, D. Smeal, R.F. Heyduck, C.K. Owen, K.D. Kohler, and K.A. Lombard. NMSU Agricultural Science Center at Farmington. Agricultural Experiment Station and Cooperative Extension Service. New Mexico State University. Las Cruces, NM. 220p.
- Arnold, Richard N., M.K. O'Neill and Dan Smeal. 2007. Broadleaf weed control in roundup ready alfalfa. Proceeding of the Western Society of Weed Science, p70, ISSN:0091-4487.
- Arnold, R.N., Michael K. O'Neill and Dan Smeal. 2007. Control of downy brome in great basin wildrye. Western Society of Weed Science Research Progress Report p1, ISSN:0090-8142.
- Arnold, R.N., Michael K. O'Neill and Dan Smeal. 2007. Control of downy brome in great basin wildrye with chlorsulfuron combinations. Western Society of Weed Science Research Progress Report p2, ISSN:0090-8142.
- Arnold, R.N., Michael K. O'Neill and Dan Smeal. 2007. Control of Russian thistle in hybrid poplar. Western Society of Weed Science Research Progress Report p21, ISSN:0090-8142.

- Arnold, Richard N., Michael K. O'Neill and Dan Smeal. 2007. Broadleaf weed control in dry beans with preemergence herbicides followed by sequential postemergence herbicides. Western Society of Weed Science Research Progress Report p77, ISSN:0090-8142.
- Arnold, Richard N., Michael K. O'Neill and Dan Smeal. 2007. Broadleaf weed control in Roundup ready field corn with postemergence herbicides. Western Society of Weed Science Research Progress Report p93, ISSN:0090-8142.
- Arnold, Richard N., Michael K. O'Neill and Dan Smeal. 2007. Broadleaf weed control in field corn with preemergence followed by sequential postemergence herbicides. Western Society of Weed Science Research Progress Report p94, ISSN:0090-8142.
- Arnold, R.N., D. Smeal, M.K. O'Neill, and M.M. West. 2007. Broadleaf Weed Control in Spring-Seeded Alfalfa, 1999-2003. Bulletin No. BL 795. New Mexico State University Agricultural Experiment Station Research Bulletin. Las Cruces, NM.
- Hathorn, G., M.K. O'Neill, R.N. Arnold, D. Smeal, and C. Owen. 2007. Field crop, variety, and fertilizer recommendations. Cooperative Extension Service and Agricultural Experiment Station. New Mexico State University. Las Cruces, NM.
- Lauriault, L.M., I.M. Ray, C.A. Pierce, R.P. Flynn, M.A. Marsalis, M.K. O'Neill, and T. Place. 2007. The 2007 New Mexico Alfalfa Variety Test Report. Agricultural Experiment Station. New Mexico State University. Las Cruces, NM. 18p.  
[http://cahe.nmsu.edu/pubs/variety\\_trials/avt07.pdf](http://cahe.nmsu.edu/pubs/variety_trials/avt07.pdf)
- Lauriault, L.M., I.M. Ray, C.A. Pierce, R.P. Flynn, M.A. Marsalis, M.K. O'Neill, and T. Place. 2007. The 2006 New Mexico Alfalfa Variety Test Report. Agricultural Experiment Station. New Mexico State University. Las Cruces, NM. 20p.  
[http://cahe.nmsu.edu/pubs/variety\\_trials/var06.pdf](http://cahe.nmsu.edu/pubs/variety_trials/var06.pdf)
- Marsalis, M.A., R.E. Kirksey, R. Flynn, M.K. O'Neill, L.M. Lauriault, and M. Place. 2007. New Mexico 2006 Corn and Sorghum Performance Tests. Agricultural Experiment Station and Cooperative Extension Service, College of Agriculture and Home Economics, New Mexico State University. Las Cruces, NM. 71p. [http://cahe.nmsu.edu/pubs/variety\\_trials/perf06.pdf](http://cahe.nmsu.edu/pubs/variety_trials/perf06.pdf)
- O'Neill, M.K. and M.M. West (eds.) 2007. Fortieth Annual Progress Report: 2006 Cropping Season. With contributions from R.N. Arnold, D. Smeal, R. Heyduck, C.K. Owen, Z. Williams, K.D. Kohler, and K. Lombard. NMSU Agricultural Science Center at Farmington. Agricultural Experiment Station and Cooperative Extension Service. New Mexico State University. Las Cruces, NM. 202p.
- Pablo, R.G., M.K. O'Neill, B.D. McCaslin, M. D. Remmeng, J. Keenan. 2007. Evaluation of corn grain yield and water use efficiency using subsurface drip irrigation. Journal of Sustainable Agriculture. 30(1):153-172.
- Smeal, D., M.K. O'Neill, M.M. West, and R.N. Arnold. 2007. A differentially-irrigated, xeric plant demonstration garden in northwestern New Mexico. Proc. Irrig. Assoc. 28th Ann. Inter. Irrig. Show and Tech. Conf. Dec. 6-7, 2007. San Diego, CA.
- Smeal, D., M.M. West, Z.F. Williams, M.K. O'Neill, K.A. Lombard, and R.N. Arnold. 2007. Efficient irrigation of small plots using a simple, inexpensive micro-irrigation system. Proceedings: ICASALS 2006 Conference: Water in Arid and Semiarid Lands: Innovative Approaches and Informed Decision-Making. Nov. 15-17, 2006. Lubbock, TX.

- Adams K.R., C.M. Meegan, S.G. Ortman, R.E. Howell, L.C. Werth, D.A. Muenchrath, M.K. O'Neill, C.A.C. Gardner. 2006. MAÍS (Maize of American Indigenous Societies) Southwest: Ear Descriptions and Traits that Distinguish 27 Morphologically Distinct Groups of 123 Historic USDA Maize (*Zea mays* L. spp. *mays*) Accessions and Data Relevant to Archaeological Subsistence Models. 2006. Research Report to the James S. McDonnell Foundation. JSMF Grant # 21002035. 21<sup>st</sup> Century Research Award/Studying complex Systems. Arizona State University. Tempe, AZ. 81p.
- Arnold, R.N., M.K. O'Neill, and D. Smeal 2006. Broadleaf weed in dry beans with preemergence followed by sequential postemergence herbicides. Western Society of Weed Science Research Progress Report, p.101, ISSN:0090-8142.
- Arnold, R.N., M.K. O'Neill, and D. Smeal. 2006. Seedling emergence of roundup ready field corn following preemergence herbicides. Western Society of Weed Science Research Progress Report, p.132, ISSN:0090-8142.
- Arnold, R.N., M.K. O'Neill, and D. Smeal. 2006. Broadleaf weed control in field corn with preemergence followed by sequential postemergence herbicides. 2006. Western Society of Weed Science Research Progress Report, p.133, ISSN:0090-8142.
- Arnold, R.N., M.K. O'Neill, and D. Smeal. 2006. Broadleaf weed control in roundup ready field corn with preemergence followed by postemergence herbicides. Western Society of Weed Science Research Progress Report, p.134, ISSN:0090-8142.
- Hathorn, G., M.K. O'Neill, R.N. Arnold, D. Smeal, and C. Owen. 2006. Field crop, variety, and fertilizer recommendations. Cooperative Extension Service and Agricultural Experiment Station. New Mexico State University. Las Cruces, NM.
- Lauriault, L.M., I.M. Ray, C.A. Pierce, L.M. English, R.P. Flynn, M.A. Marsalis, and M.K. O'Neill. 2006. The 2005 New Mexico Alfalfa Variety Test Report. Agricultural Experiment Station. New Mexico State University. Las Cruces, NM. 21p.  
<http://aces.nmsu.edu/pubs/research/agronomy/var05.pdf>
- Lombard, K, S.C. Forster-Cox, D. Smeal, and M.K.O'Neill. 2006. Diabetes on the Navajo nation: what role can gardening and agriculture extension play to reduce it? Journal of Rural and Remote Health. 6:640. <http://www.rrh.org.au/articles/subviewnew.asp?ArticleID=640>
- Marsalis, M.A., R.E. Kirksey, R.P. Flynn, and M.K. O'Neill. 2006. New Mexico 2005 Corn Silage Variety Trial Results – Artesia, Clovis and Farmington. Plant Management Network. Crop Management.
- Marsalis, M.A., R.E. Kirksey, R. Flynn, M.K. O'Neill, L.M. Lauriault, L.M. English and D.A. McWilliams. 2006. New Mexico 2005 Corn and Sorghum Performance Tests. Agricultural Experiment Station and Cooperative Extension Service, College of Agriculture and Home Economics, New Mexico State University. Las Cruces, NM.
- O'Neill, M.K., K.A. Lombard, B.M. Onken, A.L. Ulery, and M.K. Shukla. 2006. Power plant combustion byproducts for improved crop productivity of agricultural soils. Final Report prepared for the U.S. Department of Energy National Energy Technology Laboratory and the Combustion Byproducts Recycling Consortium. NMSU Agricultural Science Center at Farmington. Agricultural Experiment Station and Cooperative Extension Service. New Mexico State University. Las Cruces, NM. 95p.
- O'Neill, M.K., K. Lombard, D. Smeal, R.N. Arnold, R. Heyduck, J. Mexal, and B. Onken. 2006. Poplar-based Agroforestry in Arid/semi-arid Regions: Opportunities and Challenges in a

- Growing World. June 4-9, 2006. Fourth International Poplar Symposium, Meeting the Needs of a Growing World through Poplar and Willow Science: Combining Traditional and Novel Approaches in the Genomic Era. Nanjing, China.
- O'Neill, M.K., D. Smeal, R.N. Arnold, and K. Lombard. 2006. Growth and survival of drip-irrigated hybrid poplar in the semi-arid Four Corners region. *Journal of Sustainable Forestry*. 23(2):47-62.
- O'Neill, M.K. and M.M. West. 2006. Thirty-ninth Annual Progress Report: 2005 Cropping Season. With contributions from R.N. Arnold, D. Smeal, R. Heyduck, C.K. Owen, Z. Williams, K.D. Kohler, K. Lombard, N. Pryor, and J. Tomko. NMSU Agricultural Science Center at Farmington. Agricultural Experiment Station and Cooperative Extension Service. New Mexico State University. Las Cruces, NM. 194p.
- Shock, C., R. Flock, E. Feibert, A. Pereira, and M.K O'Neill. 2006. Drip irrigation guide for growers of hybrid poplar. Cooperative Extension Service Publication EM 8902. Oregon State University. Corvallis, OR. 7p. <https://catalog.extension.oregonstate.edu/em8902>
- Smeal, D, M.K. O'Neill, C.K. Owen, Z.F. Williams, M.M. West, and R.N. Arnold. 2006. Thirty-five Years (1969-2003) of Climatological Data: NMSU Agricultural Science Center at Farmington, New Mexico. Research Report 756. Agricultural Experiment Station. New Mexico State University. Las Cruces, NM. 29p.
- Arnold, Richard N., Dan Smeal and Michael K. O'Neill. 2005. Broadleaf weed control in field corn with postemergence herbicides. *J. Crop Management*. 8p.
- Arnold, Richard N., Michael K. O'Neill and Dan Smeal. 2005. Broadleaf weed control in dry beans with preemergence followed by sequential postemergence herbicides. *Western Society of Weed Science Progress Report*. p.94. ISSN:0090-8142.
- Arnold, Richard N., Michael K. O'Neill and Dan Smeal. 2005. Broadleaf weed control in field corn with preemergence followed by sequential postemergence herbicides. *Western Society of Weed Science Progress Report*. p.101. ISSN:0090-8142.
- Arnold, Richard N., Michael K. O'Neill and Dan Smeal. 2005. Seedling emergence of roundup ready field corn following preemergence herbicides. *Western Society of Weed Science Progress Report*. p.100. ISSN:0090-8142.
- Bregitzer, P., D.W. Mornhinweg, R. Hammon, M. Stack, D.D. Baltensperger, G.L. Hein, M.K. O'Neill, J.C. Whitmore, and D.J. Fiedler. 2005. Registration of 'Burton' Barley. *Crop Science*. 45:1166-1167.
- Hathorn, Gary, Mick O'Neill, Rick Arnold, Daniel Smeal, and Curtis Owen. 2005. Field crops variety and fertilizer recommendations. Cooperative Extension Service and Agricultural Experiment Station. New Mexico State University. Las Cruces, NM.
- Hathorn, Gary, Mick O'Neill, R.N. Arnold, Daniel Smeal, Curtis Owen, and Jan Tomko. 2005. Alfalfa production in the Four Corners. Updated. Cooperative Extension Service and Agricultural Experiment Station. New Mexico State University. Las Cruces, NM.
- Kirksey, R.E., R.P. Flynn, M.K. O'Neill, L.M. English, M.A. Marsalis, L.M. Lauriault, C.A. Werner, A. Scott, J. Irwin, C.K. Owen, and T. Place. 2005. New Mexico 2004 corn silage variety trial results. On-line. *Crop Management*.
- Kirksey, R.E., M.A. Marsalis, R. Flynn, M.K. O'Neill, L.M. Lauriault, L.M. English, and D.A. McWilliams. 2005. New Mexico 2004 Corn and Sorghum Performance Tests. *Agricultural*

- Experiment Station and Cooperative Extension Service, College of Agriculture and Home Economics, New Mexico State University. Las Cruces, NM. 67p.  
[http://aces.nmsu.edu/pubs/variety\\_trials/perf04.pdf](http://aces.nmsu.edu/pubs/variety_trials/perf04.pdf)
- Kirksey, R.E., M.K. O'Neill, L.M. English, M.A. Marsalis, C.A. Werner, A. Scott, J. Irwin, C.K. Owen, and T. Place. 2005. New Mexico 2004 corn grain variety trial results. On-line. Crop Management.
- Lauriault, L.M., I.M. Ray, C.A. Pierce, D.A. McWilliams, L.M. English, R.P. Flynn, S.J. Guldan, and M.K. O'Neill. 2005. The 2004 New Mexico Alfalfa Variety Test Report. Agricultural Experiment Station. New Mexico State University. Las Cruces, NM. 21p.  
[http://aces.nmsu.edu/pubs/variety\\_trials/var04.pdf](http://aces.nmsu.edu/pubs/variety_trials/var04.pdf)
- O'Neill, M.K. and M.M. West. 2005. Thirty-eighth Annual Progress Report: 2004 Cropping Season. With contributions from R.N. Arnold, D. Smeal, T. Jim, R. Heyduck, M.M. West, C.K. Owen, and K.D. Kohler. NMSU Agricultural Science Center at Farmington. Agricultural Experiment Station and Cooperative Extension Service. New Mexico State University. Las Cruces, NM.
- Smeal, D., M.K. O'Neill, and R.N. Arnold. 2005. Forage production of cool season pasture grasses as related to irrigation. *Agricultural Water Management* 76:224-236.
- Kirksey, R.E., R. Flynn, M.K. O'Neill, L.M. Lauriault, D.A. McWilliams, and L.M. English. 2004. New Mexico 2003 Corn and Sorghum Performance Tests. Agricultural Experiment Station and Cooperative Extension Service, College of Agriculture and Home Economics, New Mexico State University. Las Cruces, NM. 52p.  
[http://aces.nmsu.edu/pubs/variety\\_trials/perf03.pdf](http://aces.nmsu.edu/pubs/variety_trials/perf03.pdf)
- Lauriault, L.M., I.M. Ray, C.A. Pierce, D.A. McWilliams, L.M. English, R.P. Flynn, S.J. Guldan, and M.K. O'Neill. 2004. The 2003 New Mexico Alfalfa Variety Test Report. Agricultural Experiment Station. New Mexico State University. Las Cruces, NM. 21p.  
[http://aces.nmsu.edu/pubs/variety\\_trials/var03.pdf](http://aces.nmsu.edu/pubs/variety_trials/var03.pdf)
- Lombard, Kevin, Mick O'Neill, Dan Smeal, Rick Arnold, and John Mexal. 2004. Hybrid Poplar Establishment under Harsh Environmental and Edaphic Conditions of the Four Corners Region. June 27 – July 2, 2004. First World Agroforestry Congress. Orlando, FL.
- O'Neill, M.K. (ed.) 2004. Thirty-seventh Annual Progress Report: 2003 Cropping Season. With contributions from R.N. Arnold, D. Smeal, T. Jim, C.K. Owen, and K.D. Kohler. NMSU Agricultural Science Center at Farmington. Agricultural Experiment Station and Cooperative Extension Service. New Mexico State University. Las Cruces, New Mexico, USA. 164p.
- O'Neill, Mick, Kevin Lombard, Dan Smeal, and Rick Arnold, John Mexal. 2004. Establishment of Hybrid Poplar in Semi-arid Temperate Zones. 27 – July 2, 2004. First World Agroforestry Congress. Orlando, F.L. Martin, E.C. and M.K. O'Neill (ed). 2004. Fourth Annual Four Corners Irrigation Workshop. July 10-11, 2002. Shiprock, NM. University of Arizona Technical Report. 51p.
- O'Neill, M.K., C.K. Owen, R.N. Arnold, and D. Smeal. 2004. Spring oats research in the Four Corners region: 1989-1998. New Mexico State University, Agricultural Experiment Station Research Bulletin No. 787. Las Cruces, NM. 32p.  
<https://aces.nmsu.edu/pubs/research/horticulture/BL787/welcome.html>
- Angima, S.D., D.E. Stott, M.K. O'Neill, C.K. Ong, and G.A. Weesies. 2003. Soil erosion prediction using RUSLE for central Kenyan highland conditions. *Agriculture, Ecosystems &*



- Environment, Vol 97/1-3: 295-308.  
<https://www.sciencedirect.com/science/article/pii/S0167880903000112>
- Lauriault, L.M., I.M. Ray, D.A. McWilliams, L.M. English, R.P. Flynn, S.J. Guldán, M.W. Murray, and M.K. O'Neill. 2003. The 2002 New Mexico Alfalfa Variety Test Report. Agricultural Experiment Station. New Mexico State University. Las Cruces, NM. 20p.  
[http://aces.nmsu.edu/pubs/variety\\_trials/var02.pdf](http://aces.nmsu.edu/pubs/variety_trials/var02.pdf)
- O'Neill, M.K. (ed.) 2003. Thirty-sixth Annual Progress Report: 2002 Cropping Season. With contributions from R.N. Arnold, D. Smeal, T. Jim, C.K. Owen, and K.D. Kohler. NMSU Agricultural Science Center at Farmington. Agricultural Experiment Station and Cooperative Extension Service. New Mexico State University. Las Cruces, New Mexico, USA. 161p.
- O'Neill, Mick, Curtis Owen, Dan Smeal and Rick Arnold. 2003. New Mexico 2003 winter wheat variety trial results – Farmington. Plant Management Network for the on-line peer-reviewed journal Crop Management.
- Angima, S.D., D.E. Stott, M.K. O'Neill, C.K. Ong, and G.A. Weesies. 2002. Use of calliandra-Napier grass contour hedges to control erosion in central Kenya. Agriculture, Ecosystems & Environment, Vol 91/1-3:15-23.  
<https://www.sciencedirect.com/science/article/pii/S0167880901002687>
- Nyaata, O.Z., M.K. O'Neill, P.T. Dorward, and J.D.H. Keatinge. 2002. Harvesting strategies for improved mixtures of calliandra and Napier grass in the central Kenyan highlands. Journal of Sustainable Agriculture, Vol. 19(3):77-95.  
[https://www.tandfonline.com/doi/abs/10.1300/J064v19n03\\_08](https://www.tandfonline.com/doi/abs/10.1300/J064v19n03_08)
- Lauriault, L.M., I.M. Ray, L.M. English, M.W. Murray, and M.K. O'Neill. 2002. The 2001 New Mexico Alfalfa Variety Test Report. Agricultural Experiment Station. New Mexico State University. Las Cruces, NM. [http://aces.nmsu.edu/pubs/variety\\_trials/var01.pdf](http://aces.nmsu.edu/pubs/variety_trials/var01.pdf)
- O'Neill, M.K., S.D. Angima, B. Duinker, B. Okoba. 2002. Fodder production from contour hedges in the central Kenyan highlands. Journal of Sustainable Agriculture, Vol. 20(3):57-67.  
[https://www.tandfonline.com/doi/abs/10.1300/J064v20n03\\_06?journalCode=wjsa20](https://www.tandfonline.com/doi/abs/10.1300/J064v20n03_06?journalCode=wjsa20)
- O'Neill, M.K. (ed.). 2002. Thirty-fifth Annual Progress Report: 2001 Cropping Season. With contributions from R.N. Arnold, D. Smeal, T. Jim, J.F. Tomko, C.K. Owen, and K.D. Kohler. 2002. NMSU Agricultural Science Center at Farmington. Agricultural Experiment Station and Cooperative Extension Service. New Mexico State University. Las Cruces, New Mexico, USA. 160p.
- Angima, S.D., M.K. O'Neill, and D.E. Stott. 2001. On-farm assessment of contour hedges for soil and water conservation in central Kenya. In: D.E. Stott, R.H. Mohtar, and G.C. Steinhardt (eds). Sustaining the Global Farm. Selected papers from the 10<sup>th</sup> International Soil Conservation Organization Meeting. May 24-29, 1999. Purdue University and USDA-ARS National Soil Erosion Research Laboratory. West Lafayette, IN. 5p.  
<http://topsoil.nserl.purdue.edu/nserlweb-old/isco99/pdf/ISCODisc/SustainingTheGlobalFarm/P059-Angima.pdf>
- Lauriault, L.M., I.M. Ray, L.M. English, M.W. Murray, and M.K. O'Neill. 2001. The 2000 New Mexico Alfalfa Variety Test Report. Agricultural Experiment Station. New Mexico State University. Las Cruces, NM. 17p. <http://aces.nmsu.edu/pubs/research/agronomy/var00.pdf>
- Mugwe, Jayne, Mick O'Neill, Samuel Gachanja, Jonathan Muriuki, and Jack Mwangi. 2001. Participatory evaluation of water harvesting techniques for establishing improved mango

varieties in smallholder farms of Mbeere District, Kenya. In: D.E. Stott, R.H. Mohtar, and G.C. Steinhardt (eds). *Sustaining the Global Farm. Selected papers from the 10<sup>th</sup> International Soil Conservation Organization Meeting. May 24-29, 1999.* Purdue University and USDA-ARS National Soil Erosion Research Laboratory. West Lafayette, IN. 6p.

<http://topsoil.nserl.purdue.edu/nserlweb-old/isco99/pdf/ISCOdisc/SustainingTheGlobalFarm/P066-Mugwe.pdf>

O'Neill, M.K. (ed.). 2001. *Thirty-fourth Annual Progress Report: 2000 Cropping Season.* With contributions from R.N. Arnold, D. Smeal, T. Jim, J.F. Tomko, C.K. Owen, and K.D. Kohler. 2001. NMSU Agricultural Science Center at Farmington. Agricultural Experiment Station and Cooperative Extension Service. New Mexico State University. Las Cruces, New Mexico, USA. 161p.

O'Neill, M.K., P.K. Tuwei, G.M. Karanja, and B. Okoba. 2001. Fodder dissemination for soil conservation and cash generation in the central Kenyan highlands. In: D.E. Stott, R.H. Mohtar, and G.C. Steinhardt (eds). *Sustaining the Global Farm. Selected papers from the 10<sup>th</sup> International Soil Conservation Organization Meeting. May 24-29, 1999.* Purdue University and USDA-ARS National Soil Erosion Research Laboratory. West Lafayette, IN. 5p.

<http://topsoil.nserl.purdue.edu/nserlweb-old/isco99/pdf/ISCOdisc/SustainingTheGlobalFarm/P065-O'Neill.pdf>

## 1979 – 2000

Angima, S.D., M.K. O'Neill, A.K. Omwega, and D.E. Stott. 2000. Use of tree-grass hedges for soil erosion control in the central Kenyan highlands. *Journal of Soil and Water Conservation* 55(4):478-482.

Mugendi, D.N., P.K.R. Nair, D.A. Graetz, J.N. Mugwee and M.K. O'Neill. 2000. Nitrogen recovery by alley-cropped maize and trees from <sup>15</sup>N labeled tree biomass in the subhumid highlands of Kenya. *Biology and Fertility of Soils* 31(2):97-101.

<https://link.springer.com/article/10.1007/s003740050630>

Nyaata, O.Z., P.T. Dorward, J.D.H. Keatinge, and M.K. O'Neill. 2000. Availability and use of dry season feed resources on smallholder dairy farms in central Kenya. *Agroforestry Systems* 50(3):315-331. <https://link.springer.com/article/10.1023/A:1006447915074>

O'Neill, M.K. (ed.). 2000. *Thirty-third Annual Progress Report: 1999 Cropping Season.* With contributions from E.J. Gregory, R.N. Arnold, D. Smeal, T. Jim, G.F. Mitchell, J.F. Tomko, C.K. Owen, W. Hastings, K.D. Kohler, and R. Boyles. NMSU Agricultural Science Center at Farmington. Agricultural Experiment Station and Cooperative Extension Service. New Mexico State University. Las Cruces, New Mexico, USA. 129p.

Mugendi, D.N., P.K.R. Nair, J.N. Mugwe, M.K. O'Neill, and P. Woomer. 1999. Alley cropping of maize with calliandra and leucaena in the subhumid highlands of Kenya. Part 1: Soil-fertility changes and maize yield. *Agroforestry Systems* 46(1):39-50.

<https://link.springer.com/article/10.1023/A:1006269217882>

Mugendi, D.N., P.K.R. Nair, J.N. Mugwe, M.K. O'Neill, M.J. Swift, and P. Woomer. 1999. Alley cropping of maize with calliandra and leucaena in the subhumid highlands of Kenya. Part 2: Biomass decomposition, N mineralization, and N uptake by maize. *Agroforestry Systems* 46(1):51-64. <https://link.springer.com/article/10.1023/A:1006288301044>

O'Neill, M.K. 1999. Temperate Agroforestry Systems. A.M. Gordon and S.M. Newman (Eds.) Book Review. *Journal of Environmental Quality* 28(3):1043-1044.

- Mwangi, J.N., D.N. Mugendi, M.K. O'Neill. 1996. Crop yield response to incorporation of leaf prunings in sole and alley cropping systems. *East African Agriculture and Forestry Journal* 62(1&2):209-218.
- Mugendi, D., M.K. O'Neill, and P. Seward. 1994. Evaluation of the potential of leaves of multipurpose tree species as a source of nitrogen for maize. *African Crop Science Journal* 2(3):273-278.
- Saha, H.M., E.N. Gacheru, G.M. Kamau, M.K. O'Neill, and J.K. Ransom. 1994. Effect of nitrogen and plant density on the performance of Pwani hybrid maize. *African Crop Science Journal* 2(1):63-67. <https://www.ajol.info/index.php/acsj/article/view/54685>
- Gacheru, E.N., G.M. Kamau, H.M. Saha, G.D. Odhiambo, and M.K. O'Neill. 1993. Effects of land preparation and weeding on maize (*Zea mays*) grain yields in the coastal region of Kenya. *International Journal of Pest Management* 39(1):57-60.
- O'Neill, M.K. and M. Diaby. 1987. Effects of high soil temperature and water stresses on Malian pearl millet and sorghum during seedling stage. *Journal of Agronomy and Crop Science* 159:192-198. <https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1439-037X.1987.tb00085.x>
- O'Neill, M.K., W.C. Hofmann, and A.K. Dobrenz. 1987. Moisture stress effects on the yield and water use of sorghum hybrids and their parents. *Journal of Agronomy and Crop Science* 159:167-175. <https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1439-037X.1987.tb00082.x>
- Hofmann, W.C., M.K. O'Neill, and A.K. Dobrenz. 1984. Physiological responses to sorghum hybrids and parental lines to moisture stress. *Agronomy Journal* 76:223-228.
- O'Neill, M.K., W.C. Hofmann, A.K. Dobrenz, and V. Marcarian. 1983. Drought responses of sorghum hybrids under a sprinkler irrigation gradient system. *Agronomy Journal* 75:102-107.
- O'Neill, M.K., B.R. Gardner, and R.L. Roth. 1979. Orthophosphoric acid as a phosphorus fertilizer in trickle irrigation. *Soil Science Society of America Journal* 43:283-286.