

Bibliography: Maize Database Project

References Associated with Dated Maize

Summary: The citations that follow are from the reference column in the spreadsheet on dated Southwest maize. These citations provide the publications where the dates were first reported and the archaeological context for most, but not all, of the dated samples.

Adams, E. C., 2002. *Homol'ovi: An Ancient Hopi Settlement Cluster*. University of Arizona Press, Tucson, Arizona.

Aguila, L. (ed.), 2007 Farming on the Floodplain: The Archaeology of the Phoenix Sky Harbor International Airport Center Runway (Runway 7L-25R) Reconstruction Project. Cultural Resources Report No. 139. Archaeological Consulting Services, Ltd., Tempe, Arizona. Anthropological Paper No. 11. Pueblo Grande Museum, Phoenix.

Aikens, C. M., 1967. *Excavations at Snake Rock Village and Bear River Number Two Site*, Department of Anthropology, University of Utah, Anthropological Papers 87. Salt Lake City, Utah.

Allison, J. R., 1990. *Anasazi Subsistence in the Saint George Basin, Southwestern Utah*. Unpublished Master's Thesis, Brigham Young University, Provo, Utah.

Allison, J. R., C. M. Meegan, and S. S. Murray, 2008 Archaeology and Archaeobotany of Southern Paiute Horticulture in the St. George Basin, Southwestern Utah. *Kiva* 73(4):417-449.

Ambler, J. R., 1966. Caldwell Village and Fremont Pre-history. University of Utah Anthropological Papers no. 84. Salt Lake City, Utah.

Barkwill Love, L., 2020. Old Corn, New Perspectives: Modeling the Timing and Intensity of Archaic Maize in the Southwest. Poster Presented at the 17th Biennial Southwest Symposium Archaeological Conference, Tempe, Arizona.

– 2021. Rethinking “Village” at Mogollon Village (LA 11568): Formal Chronological Modeling of a Persistent Place. *American Antiquity*, 86(1):153-172.

Baugh, T. G., T. M. Kearns, and C. W. Wheeler (eds.), 1998. Archaic, Basketmaker II, Protohistoric, and Aceramic Sites in Northwest New Mexico. Pipeline Archaeology 1990–1993: the El Paso Natural Gas North System Expansion Project, New Mexico and Arizona, vol. II. Western Cultural Resource Management, Inc. Report No. WCRM(F)074. Farmington.

Benson, L. V., J. R. Stein, and H. E. Taylor, 2009. Possible sources of archaeological maize found in Chaco Canyon and Aztec Ruin, New Mexico. *Journal of Archaeological Science* 36:387-407.

Benson, L. V., 2010. Who provided maize to Chaco Canyon after the mid-12th century drought? *Journal of Archaeological Science* 37:621-629.

Berry, M., 2014. Chapter 1, Chronology. In *Falls Creek Rockshelters Archaeological Assessment Project—Phase II*. State Historical Fund Grant Project 2012-01-038, San Juan National Forest Assistance Agreement 11 CS-II021300-067, Dominguez Archaeological Research Group, Inc.

Boomgarden, S. A., D. Metcalfe, and C. Springer, 2014. Prehistoric Archaeology in Range Creek Canyon, Utah: A Summary of Activities of the Range Creek Field Station. *Utah Archaeology* 27:9-32.

Boyer, J. L., J. L. Moore, D. F. Levine, L. Mick-O'Hara, and M. S. Toll, 1994. *Studying the Taos Frontier: The Pot Creek Data Recovery Project*. Archaeology Notes No. 68. Office of Archaeological Studies, Museum of New Mexico, Santa Fe.

Brack M. L., M. W. Diehl, and H. J. Theil, 2018. Archaeological Investigations in 2007 and 2008 at the Mission and Mission Garden Loci of the Clearwater Site, AZ BB:13:6 (ASM), and the Santa Cruz River Westside Canals, AZ BB:13:481 (ASM, Tucson, Pima County, Arizona.

Brew, J. O. 1946. *Archaeology of Alkali Ridge, Southeastern Utah*. Cambridge: Harvard University Press.

Cable, J. S., and D. E. Doyel, 1987. Pioneer Period Site Structure and Settlement Pattern in the Phoenix Basin, in D. E. Doyel, (ed.), *The Hohokam Village: Site Structure and Organization*. Washington, D.C.: American Association for the Advancement of Science, 21-70.

Campbell, K., and J. A. Railey, (eds.), 2008. *Archaeology of the Hondo Valley, Lincoln County, New Mexico: Archaeological Investigations Along US 70 from Ruidoso Downs to Riverside*. New Mexico Department of Transportation, Cultural Resource Technical Series 2006-1. SWCA Environmental Consultants and Parsons Brinkerhoff, Albuquerque, New Mexico.

Cameron, C. M., 2002. Sacred Earthen Architecture in the Northern Southwest: The Bluff Great House Berm. *American Antiquity* 67:677-699.

Carpenter, J., G. Sánchez, J. Watson, and E. Villalpando, 2015. The La Playa Archaeological Project Binational Interdisciplinary Research on Long-Term Human Adaptation in the Sonoran Desert, *Journal of the Southwest*, Volume 57, Numbers 2 and 3, Summer-Autumn 2015, pp. 213-264. The Southwest Center, University of Arizona, Tucson, Arizona.

Charles, M.C., 2000. The emergency excavation of eleven human burials from archaeological site 5LP4991, the Darkmold site, La Plata County, Colorado. Durango (CO): Fort Lewis College.

– 2011. Refining the chronology of the Durango Basketmakers. *Southwestern Lore* 77: 21–31.

– 2015. The archaeology of the Darkmold site 5LP4991, La Plata County, CO: a final report, volume 2 (Colorado State Historical Fund Grant #12-01-74). Denver: Report on file at History Colorado.

Charles, M.C., L. M. Sesler & T. D. Hovezak, 2006. Understanding eastern Basketmaker II chronology and migrations. *Kiva* 72: 217–38. <https://doi.org/10.1179/kiv.2006.72.2.004>

Chenault, M. L., 2009. *The San Pedro Phase Component of the Dairy Site: Data Recovery at site AZ AA:12:285 (ASM) in Marana, Pima County, Arizona*. Cultural Resource Report Number 20094. WestLand Resources, Inc, Tucson, Arizona.

Chupika, J. P., 2009. *Ridges Basin Excavations: The Sacred Ridge Site (5LP245)*. SWCA Anthropological Research Papers Vol. XII. SWCA Environmental Consultants, Phoenix, Arizona.

Ciolek-Torrello, R., (ed.) 1998. *Early Farmers of the Sonoran Desert: Archaeology Investigations at the Houghton Road Site, Tucson, Arizona*. Technical Series 72, Statistical Research, Inc. Distributed by University of Arizona Press, Tucson, Arizona.

Ciolek-Torrello, R., E. E. Klucas, and H. Warner, 2010. *The State Route 188– Cottonwood Creek Project: The Sedentary to Classic Period Transition in Tonto Basin*. Prepared for the Arizona Department of Transportation Engineering Consulting Section ECS Contract No. 99-60 TRACS No. H4476-03D. Technical Series 78 Statistical Research, Inc. Tucson, Arizona, and Redlands, California.

Clark, J. J., (ed.) 2004. Ancient Farmers of the Safford Basin: Archaeology of the U.S. 70 Safford-to-Thatcher Project. *Anthropological Papers* No. 39. Center for Desert Archaeology, Tucson, Arizona.

Cummings, L. S., M. K. Logan, and K. Puseman, 2010. *AMS Radiocarbon Dating and Organic Residue (FTIR) Analysis of Samples from the Pigg Site (5MT4802), Colorado*. PaleoResearch Institute, Golden, Colorado.

da Fonseca, R. R., B. D. Smith, N. Wales, et al., 2015. The origin and evolution of maize in the Southwestern United States. *Nature Plants* 1:1-5.

Dering, J. P., H. J. Shafer, and R. P. Lyle, et al., 2001. The El Paso Loop 375 Project: Phase II Testing and Phase III Mitigation. Texas Department of Transportation, Environmental Affairs Division. Texas A & M University Center for Ecological Archaeology.

Desruisseaux, D. S., T. D. Yoder, V. H. Hensler, K. R. Adams, S. S. Murray, and E. M. Perry, 2007. 5LP177. In *Animas–La Plata Project: Ridges Basin Excavations—Eastern Basin Sites*, edited by Thomas D. Yoder and James M. Potter, pp. 55–122. SWCA Anthropological Research Papers No. 10, Vol. IV. SWCA Environmental Consultants, Phoenix, Arizona.

Diederichs, S.R., (ed.). 2020. *The Basketmaker Communities Project*. Cortez (CO): Crow Canyon Archaeological Center. Cortez, Colorado.

Doyle, D. E. and T. L. Hoffman, (eds.), 2003. *Settlement History Along Pinal Creek in the Globe Highlands, Arizona, Volume 1: Introduction and Site Descriptions*. Cultural Resources Report 112, Archaeological Consulting Services, Ltd. Tempe, Arizona

Dungan, K. A., 2015. *Religious Architecture and Borderland Histories: Great Kivas in the Prehispanic Southwest, 1000 TO 1400 CE*. Unpublished PhD Dissertation, University of Arizona, Tucson, Arizona.

Eisenhauer, N. F., V. H. Hensler, K. R. Adams, S. S. Murray, and E. M. Perry, 2007. 5LP240. In *Animas-La Plata Project: Ridges Basin Excavations—Eastern Basin Sites*, edited by Thomas D. Yoder and James M. Potter, pp. 203–236. SWCA Anthropological Research Papers No. 10, Vol. IV. SWCA Environmental Consultants, Phoenix, Arizona.

Eisenhauer, N. F., V. H. Hensler, K. R. Adams, S. S. Murray, and E. M. Perry, 2008. 5LP186. In *Animas-LaPlata Project: Ridges Basin Excavations—Archaic, Basketmaker II, and Limited Activity Sites*, J. M. Potter (ed.) pp. 121-144, SWCA Anthropological Research Paper no. 10, vol. IX. Environmental Consultants, Phoenix, Arizona.

Eisenhauer, N. F., N. R. Shurack, K. R. Adams, S. S. Murray, and E. M. Perry, 2008. 5LP188. In *Animas-LaPlata Project: Ridges Basin Excavations—Archaic, Basketmaker II, and Limited Activity Sites*, J. M. Potter (ed.) pp. 33-60, SWCA Anthropological Research Paper no. 10, vol. IX. Environmental Consultants, Phoenix, Arizona.

Eisenhauer, N. F., V. H. Hensler, K. R. Adams, S. S. Murray, and E. M. Perry, 2008. 5LP570. In *Animas-LaPlata Project: Ridges Basin Excavations—Archaic, Basketmaker II, and Limited Activity Sites*, J. M. Potter (ed.) pp. 61-79, SWCA Anthropological Research Paper no. 10, vol. IX. Environmental Consultants, Phoenix, Arizona.

Elson, M. D. (ed.), 2006. *Sunset Crater Archaeology: The History of a Volcanic Landscape. Introduction and Site Descriptions, Parts 1 and 2*. Anthropological Papers No. 30. Center for Desert Archaeology, Tucson, Arizona.

Elson, M. D., and D. L. Swartz 1994 *The Roosevelt Community Development Study. Volume 1: Introduction and Small Sites*. Anthropological Papers No. 13. Center for Desert Archaeology, Tucson.

Fahrni, G. A. Jr., 2004. Preliminary Investigation of Early Agriculturalists in the Vicinity of Moab, Utah in the Northern Southwest. Unpublished Master's Thesis. Department of Anthropology, Northern Arizona University, Flagstaff.

Fawcett, W. B., 1999. *Transitions Between Farming, Hunting & Gathering Along the Fremont/Pueblo Frontier: Archaeological Evidence from Coombs Cave and Field Near Moab, Utah*. Utah State University, Logan, Utah.

Finley, J. B., E. Robinson, R. J. Desrose, and E. Hora, 2019. Multidecadal Climate Variability and the Florescence of Fremont Societies in Eastern Utah, *American Antiquity*, 85: 93-112.

Fordyce S. L., M. C. Ávila-Arcos, M. Rasmussen, E. Cappellini, J. A. Romero-Navarro, N. Wales, D. E. Alquezar-Planas, S. Penfield, T. A. Brown, J. P. Vielle-Calzada, R. Montiel, T. Jørgensen, N. Odegaard, M. Jacobs, B. Arriaza, T. F. Higham, C. B. Ramsey, E. Willerslev, M. T. Gilbert, 2013. Deep sequencing of RNA from ancient maize kernels. *PLoS One* 8::e50961. doi: 10.1371/journal.pone.0050961. Epub 2013 Jan 11. PMID: 23326310; PMCID: PMC3543400.

Forsyth, D. W., 1984. *Preliminary Report of Archeological Investigations at the Smoking Pipe Site (42UT150), Utah VaUey, Utah-The 1983 and 1984 Seasons*. Brigham Young University, Museum of Peoples and Cultures, Technical Series No. 84-92.

Fox, G. L., and S. M. Baumann, 2000. *Archeological investigation of rooms 15 and 16 at the Upper Cliff Dwelling (AZ U:8:48 (ASM)), Tonto National Monument*. Western Archeological and Conservation Center, National Park Service, U.S. Dept. of the Interior, Tucson, Arizona.

Franklin, H. H., 2018. *Two and a Half Centuries of Pottery Mound: New Chronological Evidence*. Maxwell Museum Technical Series No. 29. University of New Mexico, Albuquerque, New Mexico.

Freeman, A. K. L., 1998. *Archaeological Investigations at the Wetlands Site, AZ AA:12:90 (ASM)*. Technical Report No. 97-5. Center for Desert Archaeology, Tucson, Arizona.

Geib, P. R., 1993. New Evidence for the Antiquity of Fremont Occupation in Glen Canyon, South-central Utah, In *Proceedings of the First Biennial Conference on Research in Colorado Plateau National Parks, 22-25 July 1991*, Transactions and Proceedings Series NPS/NRNAU/NRTP-93/10, United States Department of the Interior National Park Service.

– 1995. Radiocarbon Record for Archaic Occupation of the Central Colorado Plateau. In *Proceedings of the Second Biennial Conference on Research in Colorado Plateau National Parks, 25-28 October 1993*. C. van Riper III, National Park Service Transactions and Proceedings Series NPS/ NRNAU/ NRTP-95/11. United States Department of the Interior National Park Service.

– 1995. Continuous or Not? Archaic Occupation of the Central Colorado Plateau. In *Proceedings of the Second Biennial Conference on Research in the Colorado Plateau National Parks*, edited by C. van Riper, III, pp. 889-136. Transactions and Proceedings Series NPS/NRNAU/NRTP-95/11, National Park Service, Denver.

– 1996. Early Formative Occupancy of Glen Canyon. In *Glen Canyon Revisited*, P. R. Geib (ed.), University of Utah Anthropological Papers, No. 119, University of Utah Press, Salt Lake City.

– 2011. *Foragers and Farmers of the Northern Kayenta Region: Excavations Along the Navajo Mountain Road*. University of Utah Press, Salt Lake City, Utah.

Geib, P.R., N.J. Coulam, and K.A. Hays-Gilpin, 1996. Atlatl Rock Cave: Findings from the Investigation and Remediation of Looter Damage. Navajo Nation Archaeological Report No. 93-121. Ms. on file, Navajo Nation Archaeology Department, Window Rock

Geib, P. R., and K. Spurr, 2000. The Basketmaker II-III Transition on the Rainbow Plateau. In *Foundations of Anasazi Culture: The Basketmaker-Pueblo Transition*. (ed.) P. F. Reed, pp. 175-201. University of Utah Press, Salt Lake City.

Gerow, P. A., and P. Hogan, 2000. *Investigations at LA 110299: A Late Dinetah Phase Occupation along U.S. 550, North of Cedar Hill, New Mexico*. Office of Contract Archeology, University of New Mexico, Albuquerque, New Mexico.

Gill, K. M., 2015. *Ancient Plant Use and Importance of Geophytes among the Island Chumash of Santa Cruz Island, California*. Unpublished PhD. Dissertation, University of California, Santa Barbara.

Gillreath-Brown, A., A. Deter-Wolff, K. R. Adams, V. Lynch-Holmd , S. Fulghama , S. Tushingama, W. D. Lipe , R. G. Matson, Redefining the Age of Tattooing in Western North America: A 2000-Year-Old Artifact from Utah, *Journal of Archaeological Science: Reports*, 24:1064-1075.

Gilpin, D., 1994. Lukachukai and Salina Springs: Late Archaic/Early Basketmaker Habitation Sites in the Chinle Valley, Northeastern Arizona. *Kiva*, 60:203-218.

Gilpin, D., R. R. Fox, and N. L. Kilburn, 1997. *Archaeological Investigations in the Southwestern San Juan Basin: Data Recovery Along Navajo Route 9, Segment 2-1, Tohatchi Flats to Coyote Canyon, McKinley County, New Mexico*. Submitted to the Navajo Nation Historic Preservation Department, NNHPD Report No. HPD96-198.7. Copies available from Navajo Nation Historic Preservation Department, Window Rock, Arizona.

Gilpin, D., D. A. Phillips Jr., J. Ballagh, F. M. O'Hara III, L. Martin, and L. Dickerson, 2004. *Archaeological Excavations in the Carrizo Wash Valley, East-Central Arizona: Data Recovery on the Fence Lake Mine Transportation Corridor*. SWCA Cultural Resource Report No 03-265. SWCA, Inc., Flagstaff.

Graves, T. B., M. R. Miller, and M. D. Willis, 2022. Jornada Mogollon, Southeastern New Mexico, and West Texas Database of Feature Data, Absolute and Relative Dates, and Other Data. Data in possession of the authors.

Gregory, D. A., 2001. *Excavations in the Santa Cruz Floodplain: The Early Agricultural Component at Los Pozos*. Anthropological Papers No. 21 Center for Desert Archaeology, Tucson, Arizona.

Greubel, R. A., 2005. Investigations at Hunchback Shelter (42BE751). In *The Kern River 2003 Expansion Project, Utah —Volume III, Prehistoric Excavated Sites and Discoveries, Part 2*, Alan D. Reed, Matthew T. Seddon, and Heather K. Stettler, (eds.), pp. 3:195 –720. MS on file at Alpine Archaeological Consultants, Inc. Montrose, Colorado.

Greubel R. A., Alan D. Reed, and Bradford W. Andrews, 2009. Gaining Ground on the Gateway Tradition: Analysis of Materials from Weimer Ranch, A Prehistoric Farming Settlement in West-Central Colorado, *Colorado Archaeology* 75:30-61.

Greubel, R. A., and J. D. Cater, 2001. Schmidt Site (5MN4253). In *The TransColorado Natural Gas Pipeline Archaeological Data Recovery Project, Western Colorado and Northwestern New Mexico*, A. D. Reed, (ed.), pp. 5:1-179. MS on file at Alpine Archaeological Consultants, Inc. Montrose, Colorado: Alpine Archaeological Consultants, Inc.

Gumerman, G. J., 1991 Understanding the Hohokam. In *Exploring the Hohokam, Prehistoric Desert Peoples of the American Southwest*, G. J. Gumerman (ed.), pp. 1-27. Amerind Foundation, Dragoon, Arizona and University of New Mexico Press, Albuquerque

Hard, R. J. and J. R. Roney, 2020. *Early Farming and Warfare in Northwest Mexico*. University of Utah Press. Salt Lake City.

Harry, K. G., 2008. *The Shivwits Research Project: Results of the 2006-2007 UNLV Archaeological Field Schools on the Parashant National Monument*. Technical report on file at Lake Mead National Recreation Area, Boulder City, Nevada.

Henderson, K. T., 1987. *Structure and Organization at La Ciudad*. Anthropological Field Studies No. 18. Office of Cultural Resource Management, Department of Anthropology, Arizona State University, Tempe.

– 2003. *Hohokam Farming on the Salt River Floodplain: Excavations at the Sky Harbor Airport North Runway*. Anthropological Papers No. 42 Center for Desert Archaeology, Tucson, Arizona, and Anthropological Papers No. 9 Pueblo Grande Museum, Phoenix, Arizona.

– 2011. *Crimson Ruin: A Hohokam Settlement at the Head of the Lehi Canal System*, Anthropological Papers No. 44. Center for Desert Archaeology, Tucson, Arizona.

Hernández, X. E., 1985. Maize and Man in the Greater Southwest. *Economic Botany* 39:416-430.

Herr, S. A., 2010. Preliminary Report of the Archaeological Data Recovery in Doubtful Canyon Segment, State Route 260—Payson to Heber Archaeological Project, Gila County, Arizona. Project Report No. 10-118. Desert Archaeology, Tucson, Arizona.

Herr, S. A., P. H. Stein, and P. Cook, 2000. *Preliminary Report of Archaeological Data Recovery in the Preacher Canyon Section and Sharp Creek Campground, State Route 260–Payson to Heber Archaeological Project, Gila County, Arizona. Project Report No. 00-129 (Revised)*. Desert Archaeology, Inc., Tucson, Arizona.

Hesse, S. J., 2008. *Archaeological Investigations at the Outpost Estates II Parcel of AZ BB:10:59 (ASM)—An Early Agricultural Period San Pedro Phase Site in the Eastern Tucson Basin, 493*. SWCA Cultural Resources Report No. 7. SWCA, Inc. Environmental Consultants, Tucson, Arizona.

Hesse, S. J., and A. Lascaux, 2005, *The Cortaro Road Site: 2800 Years of Prehistory in the Northern Tucson Basin*. Cultural Resources Report No. 03-172. SWCA, Inc., Tucson, Arizona.

Hill, M. E. Jr., J. S. Bruder, 2000. *Farmers and Foragers or Cultivators and Collectors? Opportunistic Occupation in the Interior Desert of the Western Papagueria*. Dames & Moore Intermountain Cultural Resource Services Research Paper No. 57. Phoenix, Arizona.

Hill, M. E. Jr., J. S. Bruder, M. E. Beck, and B. G. Phillips, 2008. Mobile Horticulturalists in the Western Papagueria. *Kiva* 74:33-68.

Hovezak, T. D., and L. M. Sesler, 1999. *The Mill Creek Archaeological Project 1998 Testing Program*. Document on file, Moab Field Office, Bureau of Land Management and the Edge of the Cedars State Park and Museum.

– 2002. Archaeological Investigations in the Fruitland Project Area: Late Archaic, Basketmaker, Pueblo I and Navajo sites in Northwestern New Mexico. Research Papers No. 4, Vol. 4, parts 1 and 2. La Plata Archaeological Consultants, Dolores, CO.

Huckell, B. B., 1990. *Late Preceramic Farmer-Foragers in Southeastern Arizona: A Cultural and Ecological Consideration of the Spread of Agriculture into the Arid Southwestern United States*, Unpublished Ph.D. dissertation, University of Arizona, Tucson, Arizona.

Janetski, J. C., 2016. Fremont Occupation of the Utah Valley Uplands: The View from Jay's Place and Kay's Cabin. *Utah Archaeology* 29:29–58.

– 2017. Late Archaic to Early Puebloan Occupation on the Arizona Strip, Northwestern Arizona: A View from Rock Canyon Shelter. *Kiva* 83:203-242.

Janetski, J. C., M. L. Bodily, B. A. Newbold, and D. T. Yoder, 2012. The Paleoarchaic to Early Archaic Transition on the Colorado Plateau: The Archaeology of North Creek Shelter, *American Antiquity* 77:125-159.

Janetski, J. C., L. Kreutzer, R. K. Talbot, L. D. Richens, and S. A. Baker, 2005. Life on the Edge: Archaeology in Capitol Reef National Park. Museum of Peoples and Cultures Occasional Papers No. 11. Brigham Young University, Provo.

Janetski, J. C., D. A. Newman, and J. D. Wilde, 2013. *A Report of Archaeological Excavations at Antelope Cave and Rock Canyon Shelter, Northwestern Arizona*. Museum of Peoples and Cultures Occasional Papers No. 19. Brigham Young University, Provo, Utah.

Johansson, L. D, K. K Richards, and J. R Allison, 2014. Wolf Village (42ut273): A Case Study in Fremont Architectural Variability. *Utah Archaeology* 27(1):33–56.

Jones, J. T., 1998. Hohokam of the Southern Frontier: Excavations at the Continental Site, a Classic Period Village South of Tucson, Arizona. *Kiva* 63:197-216.

– 2004. *Archaeological Investigations at the Cortaro Farms Road Realignment Portion of the Dairy Site, AZ AA:12:285 (ASM), in Marana, Arizona*. Archaeological Report No. 28. Old Pueblo Archaeology Center, Tucson, Arizona.

Judd, N. M., 1919. *Archaeological Investigations at Paragonah, Utah*. Smithsonian Institution, Washington, D. C. 1926 *Archaeological Observations North of the Rio Colorado*. Government Printing Office, Washington D.C.

– 1926. *Archaeological Observations North of the Rio Colorado*. Government Printing Office, Washington D.C.

Koons, M. L., and S. Nash, 2015. Preliminary Results of AMS Radiocarbon Dating of Sandals from Tularosa Cave, NM. In, *Collected papers from the 18th Biennial Mogollon Archaeology Conference*, pp.216-231, Friends of Mogollon Archaeology.

Kurota, A., C. A. Turnbow, 2009. *The Border Fence Project Excavations at LA 85760 AND LA 159820 for JV 1–3, Santa Teresa, Doña Ana County, New Mexico*. OCA/UNM Project No. 185-1005B. Office of Contract Archaeology, University of New Mexico, Albuquerque, New Mexico.

Lakatos, S. A. (ed.), 2014. *Triple Six at Twin Lakes: Data Recovery Results from Five Sites Along US 666, McKinley County, New Mexico*. Submitted to the New Mexico Department of Transportation, NMDOT Project No. NM-666-1(48)12, CN 2354. Copies available from New Mexico Department of Transportation, Santa Fe, New Mexico.

Lambert, S. F., 2018. *Examining Large Game Utility and Transport Decisions by Fremont Hunters: A Study of Faunal Bone from Wolf Village, Utah*. Unpublished Master's Thesis, Brigham Young University, Provo, Utah.

Lambert, S. F., J. A. Bryce, and R. J. Bischoff, 2016. An Analysis of the Early Occupation of Wolf Village. Paper presented at the 2016 Great Basin Anthropological Conference, Reno, NV. October 7, 2016.

LaMotta, V. M., 2006. *Zooarchaeology and Chronology of Homol'ovi I and Other Pueblo IV Period Sites in the Central Little Colorado River Valley, Northern Arizona*. Unpublished PhD Dissertation. University of Arizona, Tucson.

Landon, A. J., 2013. *Data Recovery at the Ant Bite Site (42WS1147) Washington County, Utah*. HRA, Inc. Archaeological Report No. 12-09, HRA, Inc., Las Vegas, Nevada. Report Prepared for Bureau of Land Management, St. George Field Office, St. George, Utah.

Lascaux, A., and B. K. Montgomery, 2013 *The Clark Site: A Farming Community in the Duncan Valley from 800 B.C. to A.D. 1450. Tierra Right of Way*. Submitted to Copper Valley Telephone Inc., Willcox, Arizona.

Leach-Palm, L., 1994 Data Recovery of a Basketmaker III Component at Site AZ-P-60-31 Along N-2015, Apache County, Arizona. Report No. 422. Zuni Cultural Resource Enterprise, Zuni, NM

Lentz, D. L., 2006. Utah Juniper Cones and Seeds from Salmon Pueblo. In, *Thirty-Five Years of Research at Salmon Ruins, New Mexico: Vol 3 Archaeobotanical Research and Other Analytical Studies*. P. F. Reed (ed.) Pp. 853-858. Center for Desert Archaeology, Tucson, Arizona.

Lindeman, M. W., 2015. Excavations at La Villa: Continuity and Change at an Agricultural Village McFadden, Technical Report No. 2012-08, Desert Archaeology, Inc., Tucson, Arizona.

Lipe, W. D., R. G. Matson, and B. M. Kemp., 2011. New Insights From Old Collections: Cedar Mesa, Utah, Revisited(ed.) *Southwestern Lore, Journal of Colorado Archaeology* 77:103-111.

McFadden, D. A., 2000a. Formative Chronology and Site Distribution on the Grand Staircase - Escalante National Monument. Manuscript on file at the Grand Staircase - Escalante National Monument Headquarters. Kanab, Utah.

– 2000b The Arroyo Site, 42Ka3976: Archaic Level Investigations. *Utah Archaeology* 2000 13 (1) 15-24.

2016. Formative chronology and site distribution on the Grand Staircase-Escalante National Monument; a research reference. U.S. Department of the Interior, Bureau of Land Management. Salt Lake City.

MacFarlane, D. E. Haddad, E. R. Bigio, A. L. Kowler, 2009. *Mapping of Holocene River Alluvium along the San Pedro River, Aravaipa Creek, and Babocomari River, Southeastern Arizona. A Report to the Adjudication and Technical Support Section Statewide Planning Division Arizona Department of Water Resources*. Arizona Geological Survey Digital Map DM-RM-1, Arizona Geological Survey, Tucson, AZ

Mabry, J. B., 2006. *Radiocarbon Dating of the Early Occupations. In Rio Nuevo Archaeology, 2000- 2003: Investigations at the San Agustín Mission and Mission Gardens, Tucson Presido*,

Tucson Pressed Brickyard, and Clearwater Site, edited by J. H. Thiel and J. B. Mabry. Technical Report No. 2004-11 http://www.archaeologysouthwest.org/pdf/rn/rio_nuevo_ch19.pdf. Desert Archaeology, Inc, Tucson.

– 2008 *Las Capas: Early Irrigation and Sedentism in a Southwestern Floodplain*. Anthropological Papers No. 28. Center for Desert Archaeology, Tucson, Arizona.

Mabry, J. B., D. L. Swartz, H. Wöcherl, J. J. Clark, G. H. Archer, and M. W. Lindeman, 1997. *Archaeological Investigations of Early Village Sites in the Middle Santa Cruz Valley*, Anthropological Papers No. 18. Center for Desert Archaeology, Tucson, Arizona.

Marshall, M. P., 2000. *Archaeological Data Recovery at Three Sites along NM44, Sandoval and San Juan Counties New Mexico*. Cibola Research Report No.231. Cibola Research Consultants, Corrales, New Mexico.

Matson, R. G., 1991 *The Origins of Southwestern Agriculture*. University of Arizona Press, Tucson.

Medeiros, M. A. and J. Bernatchez, 2014. *Virgin Anasazi Archaeology and the Southern Parkway Project*. 27(1), 77–110.

Miller, M. R, 1996. *The Chronometric and Relative Chronology Project, Volumes I-V*. Archaeological Technical Report No. 5, Anthropology Research Center, Department of Sociology and Anthropology, University of Texas at El Paso.

– 2001. *Post-Pueblo, Protohistoric, and Early Mission Period Archaeology in Western Trans-Pecos Texas and South Central New Mexico, A.D. 1450-1680*. Bulletin of the Texas Archaeological Society.

Miller, M. R, T. Graves, and R. H. Leslie, 2016. *The Merchant Site: A Late Prehistoric Ochoa Phase Settlement in Southeastern New Mexico*. Versar Cultural Resources Report No. 836EP NMCRIS No. 132077. Richardson, Texas.

Mock, J. M., 1971. *Archaeology of Spotten Cave, Utah County, central Utah*. Unpublished Master's Thesis, Brigham Young University, Provo, Utah.

Murrell, M. L. & B. J. Vierra, 2014. *Bridging the basin: land use and social history in the southern Chuska Valley: volume 3: analysis (Technical Report 14-08)*. Albuquerque (NM): Statistical Research, Inc.

Nelson, M. C., 1999. *Mimbres During the Twelfth Century: Abandonment, Continuity, and Reorganization*. University of Arizona Press, Tucson, Arizona.

Neuzil, A. A., (ed.) 2013a Introduction to the Sites. Data Recovery at Five Sites near the Marsh Station Traffic Interchange East of Tucson, Pima County, Arizona, vol. 1. Cultural Resource Survey Report No. 07-071043. EcoPlan Associates, Tucson, Arizona.

2013b Analyses and Conclusions. Data Recovery at Five Sites near the Marsh Station Traffic Interchange East of Tucson, Pima County, Arizona, vol. 2. Cultural Resource Survey Report No. 07-0

Newbold, B. A., J. C. Janetski, M. L. Bodily, and D. T. Yoder, 2012. Early Holocene Turkey (*Meleagris allopavo*) Remains from Southern Utah: Implications for the Origins of Puebloan Domestic Turkeys. *Kiva* 78:37-59.

Post, S. S., and R. C. Chapman, 2012. *Excavations Along NM 22: Agricultural Adaptation from AD 500 to 1900 in the Northern Santo Domingo Basin, Sandoval County, New Mexico*. Museum of New Mexico, Office of Archaeological Studies, Archaeological Notes 385.

Powell S., R. L. Boston, 2004. *Life on the Lehi Terrace: The Archaeology of the Red Mountain Freeway Between State Route 87 and Gilbert Road*. Archaeological Consulting Services Ltd. Tempe. Arizona.

Pinter, T. L. and R. J. Stokes (eds.), 2009. *Settlement History Along SR 88/188 from the Globe Highlands to Tonto National Monument, Arizona, Parts 1 and 2*. Cultural Resources Report No. 141. ACS.

Putsavage, K. J., 2015a. Social Reorganization in the Mimbres Region of Southwestern New Mexico: The Classic to Postclassic Transition (A.D. 1150-1450). Unpublished PhD Dissertation, University of Colorado, Boulder, Colorado.

– 2015b. Reevaluating the Mimbres “Collapse” at the Black Mountain Site. Society for American Archaeology. Current Research Online No: 230:3 : http://www.saa.org/CurrentResearch/pdf/saa_cro_230_Reevaluating_the_Mimbres_.pdf

Railey, J. A., (ed.), 2008. *Data Recovery at Five Archaeological Sites along US 491, North of Sheep Springs, San Juan County, New Mexico*. New Mexico Department of Transportation, Cultural Resource Technical Series 2007-1. SWCA Environmental Consultants, Albuquerque, New Mexico.

– 2012 Archaeology in a Lithic-Rich Landscape: Testing and Data Recovery at 18 Sites Along Paseo del Volcan, From Iris Road to NM 550, Rio Rancho, Sandoval County, New Mexico (editor and principal author). New Mexico Department of Transportation, Cultural Resource Technical Series 2011-3. SWCA, Albuquerque.

Railey, J. A., R. H. Schwendler, and C. A. Carlson, 2006. *Archaeological Data Recovery Plan for LA 153714 Along NM 53 Between Mile Posts 47.43 and 47.96, Cibola County, New Mexico*.

Prepared for the New Mexico Department of Transportation. SWCA Cultural Resources Report No. 2006-426, Albuquerque, New Mexico.

Railey, J. A., J. A. Adams, P. Burnett, A. Sullins, and C. Carlson, 2008. *Testing and Data Recovery Plan for 18 Archaeological Sites Along the Proposed Paseo del Volcan Corridor, From Iris Road to US 550, City of Rio Rancho, Sandoval County, New Mexico*. SWCA Environmental Consultants, Report No. 2008-100, Albuquerque, New Mexico.

Reed, P. F. and K. N. Hensler, (ed.). 1999. *Anasazi community development in Cove and Redrock Valley: archaeological excavations along the N33 road in Apache County, Arizona*. Navajo Nation Papers in Anthropology 33. Window Rock Arizona: Navajo Nation Archaeology Department.

Reynolds, C. R., 2012. *Meat at the Origins of Agriculture: Faunal Use and Resource Pressure at the Origins of Agriculture in the Northern U.S. Southwest*. Unpublished Master's Thesis, University of Iowa, Iowa City, Iowa.

Richens, L. D., 1983. *Woodard Mound: Excavations at a Fremont Site in Goshen Valley, Utah County, Utah 1980-1981*. Unpublished Master's Thesis, Department of Anthropology, Brigham Young University, Provo.

Roberts, H. R., 2018. *The Jackson Flat Reservoir Project: Early Maize Dates, Antechambers, Floor Vaults, and an Oversized Pithouse at a Virgin Branch Settlement in Kanab, Utah*.

– 2019. *The Jackson Flat Reservoir Project: Examples of Culture Change at a Virgin Branch Settlement in Kanab, Utah*. In *Interaction and Connectivity in the Greater Southwest*, K. G. Harry and B. J. Roth (eds.), pp. 353-377. University Press of Colorado, Boulder, Colorado.

Roberts, H. R., R. V. N. Ahlstrom, and J. D. Spangler, 2018. *Far Western Basketmaker Beginnings: The Jackson Flat Reservoir Project*. University of Utah Press, Salt Lake City, Utah.

Roth, B. J., 1996. *Regional Land Use in the Late Archaic of the Tucson Basin: A View from the Upper Bajada*. In *Early Formative Adaptations in the Southern Southwest*, B. J. Roth (ed.), pp. 37-48. Monographs in World Archaeology 5. Prehistory Press, Madison, Wisconsin.

Ryan, S. C., 2015. *The Archaeology of Albert Porter Pueblo (Site 5MT123): Excavations at a Great House Community Center in Southwestern Colorado*. Crow Canyon Archaeological Center, Cortez, Colorado.

Sagmiller, J. J., 1998. *The Maize from Black Dog Cave: Testing the Concept of Races of Maize in the American Southwest*. Unpublished Master's Thesis University of Nevada, Las Vegas. Las Vegas, Nevada.

Schachner, G., 2021. Kiiikiqö: Early Communities. In *Becoming Hopi: A History*, W. Bernardini, S. B. Koyiyumptewa, G. Schachner, L. J. Kuwanwisiwma (eds.), pp. 161-200. University of Arizona Press, Tucson, Arizona.

Sharrock, F. W., and J. P. Marwitt, 1967, *Excavations at Nephi, Utah, 1965-1966. University of Utah Anthropological Papers, No. 88*. Salt Lake City, Utah.

Schroedl, A. R. and N. J. Coulam, 1994. Cowboy Cave Revisit(ed.) *Utah Archaeology* 7:1-34/

Sedig, J. W., 2015. The Mimbres Transitional Phase: Social Demographic, and Environmental Resilience and Vulnerability from AD 900-1000 in Southwest New Mexico. Unpublished PhD Dissertation, University of Colorado, Boulder, Colorado.

Sessler, L. M. (ed.), 2006. Data Recovery at Site LA139244: A Late Archaic Habitation in Rio Arriba County, New Mexico. La Plata Archaeological Consultants, Dolores, Colorado.

Simms, S., A. Ugan, and B. Benson, 2017, Excavations at Three Ancestral Puebloan Sites Near Kanab, Utah, in 2001 and 2002. *Utah Archaeology*, 30:136–158.

Sinensky, R. J., and G. Schachner, 2019. Early Pueblo-Period Population Aggregation and Dispersal in the Petrified Forest Region, East-Central Arizona, *Kiva* 85:49-80.

Sinensky, R. J., G. Schachner, R. H. Wilshusen, and B. N. Damiata, 2021. Volcanic Climate Forcing, Extreme Cold and the Neolithic Transition in the Northern Southwest. *Antiquity* 96:123-141.

Smiley, F. E., 1994. The Agricultural Transition in the Northern Southwest: Patterns in the Current Chronometric Data, *Kiva* 60:165-189.

Smiley, F. E., W. Parry, and G. Gumerman, 1986. Early Agriculture in the Black Mesa/March Pass Region of Arizona: New Chronometric Data and Recent Excavations at Three Fir Shelter. Paper given at the 51st annual meeting of the Society of American Archaeology, New Orleans.

Smiley, F. E., and W. J. Parry, 1992. *Rethinking the Agricultural Transition in the Northern Southwest: Evidence from Three Fir Shelter*. Ms. on file, Navajo Nation Archaeology Department, Flagstaff.

Smiley, F. E., and R. V. Ahlstrom, 1998. *Archaeological Chronometry: Radiocarbon and Tree-Ring Models and Applications from Black Mesa, Arizona*. Occasional Paper No. 16, Center for Archaeological Investigations, Southern Illinois University, Carbondale, Illinois.

Smiley, F. E. & M. R. Robins, 1997. *Early Farmers in the Northern Southwest: Papers on Chronometry, Social Dynamics and Ecology*. Animas-La Plata Archaeological Project Research Paper No. 7, Northern Arizona University, Flagstaff.

Solometo, J. P., 2004. *The Conduct and Consequences of War: Dimensions of Conflict East-central Arizona*. Unpublished PhD Dissertation, Department of Anthropology, University of Michigan, Ann Arbor.

Sommer, C. A., et al., 2015. *The Basketmaker Communities Project, 2015 Annual Report*. Crow Canyon Archaeological Center, Cortez, Colorado.

Sorrell, D. H., T. L. Gentilli, and J. S. Bruder. 2012. *Archaeological Investigations at Antler House Village, AZ N:12:64 (ASM) – a Persistent Pre-Classic Farmstead in a Northern Hohokam Hinterland*, Project No. 07-046, EcoPlan Associates, Inc., Mesa, Arizona.

Speller, C. F., B. M. Kemp, S. Wyatt, C. Monroe, W. D. Lipe, U.M. Arndt, D. Yang., 2010. Ancient Mitochondrial DNA Analysis Reveals Complexity of Indigenous North American Turkey Domestication. *PNAS USA* 107: 2807-2812.

Stewart, J. D., Kelley, J. H., MacWilliams, A. C., & Reimer, P. (2004). Archaeological Chronology is West-Central Chihuahua. In G. E. Newell, & E. Gallage (eds.), *Surveying the Archaeology of Northwest Mexico* (pp. 205-245). University of Utah Press.

Stewart, J. D., A. C. MacWilliams, and J. H. Kelley, Jane H., 2004. *Archaeological Chronology of West Central Chihuahua*. In *Surveying the Archaeology of Northwest Mexico*, edited by Gillian Newell and Emiliano Gallaga M., pp. 205–245. University of Utah Press, Salt Lake City.

Stiger, M., and M. Larson, 1992. A Radiocarbon Date from the Cottonwood Cave: Corn Cache and Problems Interpreting the Origins of Farming in Western Colorado. *Southwestern Lore* 58(2):26-36.

Stone, C. L., and D. Lundin, 2017. *Results of Phased Data Recovery at AZ DD:1:75(ASM), State Route 86, Tohono O'odham Nation, Pima County, Arizona*. Report No. AZ16-01. AZTEC Engineering Group, Inc., Phoenix.

Swartz, D. L., 2016, *Archaeological Investigations at the Yuma Wash Site and Outlying Settlements, Part 1*. Anthropological Papers No. 49. Center for Desert Archaeology, Tucson, Arizona.

Talbot, R. K, S. A. Baker, and L. D. Richens, 2004. *The Right Place - Fremont and Early Pioneer Archaeology in Salt Lake City*. Museum of Peoples and Cultures Technical Series No. 03-07. Brigham Young University, Provo, Utah.

Talbot, R. K., and L. D. Richens, 1996. *Steinaker Gap: An Early Fremont Farmstead*. *Museum of Peoples and Cultures Occasional Papers No. 2*. Brigham Young University, Provo, Utah.

Talbot, R. K., L. D. Richens, A. Baadsgaard, A. Jordan, K. Baker, and S. Baker, 2002. *Archaeological Excavations at Deer Creek Shelter (42Ga3128)*. Museum of Peoples and Cultures Technical Series No. 01-4. Brigham Young University, Provo, Utah.

Tsesmeli, E., 2011. *Dwelling in the Past: Temporal and Spatial Approaches to Pre-Contact Architectural Variability at Hummingbird Pueblo, New Mexico*. Unpublished PhD Dissertation, Southern Methodist University, Dallas, Texas.

Throgmorton, K., K. L. Schleher, S. C. Ryan, S. G. Fladd, R. L. Simon, S. R. Copeland, T. D. Wilcox, L. D. Webster, C. M. Fadem, and G. D. Coffey, 2019. *The Northern Chaco Outliers Project Annual Report, 2019 Field Season*, Crow Canyon Archaeological Center, Cortez, Colorado.

M. C. Thurtle, (ed.) 2003. *Archaeological Monitoring and Sampling of Deeply Buried Late Archaic Early Agricultural Deposits at the Dairy Site, AZ AA:12:285(ASM), in the Town of Marana, Arizona*, Tierra Right of Way Services, Archaeological Research Series No. 1.

Turnbow, C., 2000. *A Highway Through Time: Archaeological Investigations Along NM 90 in Grant and Hidalgo Counties, New Mexico*. U.S. Forest Service Report 03-06-98-005b. State Highway and Transportation Department, Santa Fe, New Mexico.

Turnbow, C. and R. Huelster, 2015. *In Search of the Seventh Parrot: A Tale of Looting, Archaeology, and a Missing Bird in the Upper Forks of the Gila River, Southwestern New Mexico*. In *Collected Papers of the 17th Biennial Mogollon Archaeology Conference*, edited by Lonnie C. Ludeman, pp. 63-72. *Friend of Mogollon Archaeology*, Edward Brothers Malloy.

Turner, M. I., 2019. *Becoming Chacoan: The Archaeology of the Aztec North Great House*. Unpublished PhD Dissertation, State University of New York, Binghamton.

Ure, S. M., 2013. *Parowan Valley Potting Communities: Examining Technological Style in Fremont Snake Valley Corrugated Pottery*. Unpublished Master's Thesis, Brigham Young University, Provo, Utah.

Vanderpot, R. and M. P. Heilen, 2017. *The Mescal Wash Site: A Persistent Place Along Cienega Creek, Southeastern Arizona: Archaeological Investigations at the Marsh Station Traffic Interchange and Pantano Railroad Overpass, Interstate 10, Pima County Arizona, Volume 2: Chronometric, Artifactual, and Ecofactual Analyses*. SRI Press.

Vierra, B. J., 1986. In *Archaeological Resources of the Arch Joint Venture Project Along Coal Creek and DE-NA-Zin Wash, San Juan County, New Mexico*. Studies in Archaeology No. 3. San Juan County Archaeological Research Center, Farmington, New Mexico.

Vint, J. M., (ed.). 2015b. *Implements of Change: Tools, Subsistence, and the Built Environment of Las Capas, an Early Agricultural Irrigation Community in Southern Arizona*. Tucson, AZ, *Archaeology Southwest*. (Anthropological Papers, No. 51).

Vint J. N., 2017. Time and Place of the Early Agricultural Period in the Tucson Basin of Southern Arizona. PhD. Dissertation, University of Arizona, Tucson.

Vint, J. M. and F. L. Nials, (eds). 2015. The Anthropogenic Landscape of Las Capas, an Early Agricultural Irrigation Community in Southern Arizona. Tucson, AZ, Archaeology Southwest. (Anthropological Papers, No. 50).

Wallace, H. D., 2011. Chronologies, Pottery, and Polemics: Julian Wash and the Tucson Basin Ceramic Chronology. In *Craft Specialization in the Southern Tucson Basin: Archaeological Excavations at the Julian Wash Site, AZ BB:13:17 (ASM): Part 2. Synthetic Studies*, H. D. Wallace (ed.), pp. 505-528. Anthropological Papers No. 40. Center for Desert Archaeology, Tucson.

– 2012. *Life in the Valley of Gold: Archeological Investigations at Honey Bee Village, a Prehistoric Hohokam Ballcourt Village (Parts 1 and 2)*. Archaeological Papers No 48, Archaeology Southwest, Tucson, Arizona.

Walth, C. K., and J. A. Railey (eds.) 2011. Data Recovery Excavations at Seven Sites Along Interstate 25, Sandoval County, New Mexico. SWCA Environmental Consultants, Albuquerque, New Mexico.

Whittlesey, S. M., S. J. Hesse, and M. S. Foster (eds.) 2010. *Recurrent Sedentism and the Making of Place: Archaeological Investigations at Las Capas, a Preceramic Period Farming Community in the Tucson Basin, Southern Arizona*. Cultural Resources Report No. 7-556. SWCA, Tucson, Arizona.

Wilde, J. D., D. E. Newman, and A. E. Godfrey, 1986. *The Late Archaic/Early Formative Transition in Central Utah: Pre-Fremont Corn from the Elsinore Burial, Site 42SV2111, Sevier County, Utah*. Brigham Young University, Museum of Peoples and Cultures, Technical Series No. 86-20. Provo, Utah.

Wilde, J. D., and D.E. Newman, 1989. Late Archaic Corn in the Eastern Great Basin. *American Anthropologist* 91:712-720.

Wills, W. H., 1988. *Early Prehistoric Agriculture in the American Southwest*. School of American Research Press, Santa Fe, New Mexico.

Winslow, D. L., and L. Blair, 2003. *Black Dog Cave. Mitigation, Black Dog Mesa Archaeological Complex (26CK5686/BLM 53-7216), Vol. 2*. USDI Bureau of Land Management Report No. 5-2430(2), HRC Report No. 5-4-26(2). Las Vegas: Harry Reid Center for Environmental Studies, University of Nevada.

Whisenhunt, M. E., 2020. *Investigating Resilience in Southeast Arizona's Upper Gila River Valley: Prehistoric Settlement Patterns and Material Diversity*. Unpublished PhD dissertation, Department of Anthropology, University of Texas, San Antonio.

Wocherl, H., 2007. Chronology and Sequence of Occupation. In *Archaeological Investigations at the El Taller, AZ AA:12:92 (ASM), and Rillito Fan, AZ AA:12:788 (ASM), Sites along Eastbound I-10 between Sunset and Ruthraugg Roads, Tucson, Pima County, Arizona (TR2002-08)*. H. Wocherl (ed.), pp 83-86. Desert Archaeology, Inc., Technical Report 2003-08, Tucson, Arizona.

– 2017. *Archaeological Investigations at Los Pozos, AZ AA:12:91 (ASM), for the EW-010A and Regional Reclamation Facility Effluent Pumping Projects, Pima County, Arizona*. Desert Archaeology, Inc., Tucson, Arizona.

Wohlgemuth, E., 2008. *Data Recovery Excavations at a Portion of CA-NAP-943/H, along State Route 29, Calistoga, Napa County, California*. Report on file at the Northwest Information Center, Sonoma State University, Rohnert Park, California.

Woods, A. R., 2009. *Distribution, Function, and Value of Parowan Valley Projectile Points*. Unpublished Master's thesis, Department of Anthropology, Brigham Young University, Provo, Utah.

Wormington, H. M., 1955. *A Reappraisal of the Fremont Culture with a Summary of the Archaeology of the Northern Periphery*. The Denver Museum of Natural History, Proceedings No. 1. Denver, Colorado.

Wright, D.K., S. L. Forman, M. R. Waters, and J. C. Ravesloot, 2011. Holocene eolian activation as a proxy for broad-scale landscape change on the Gila River Indian Community, Arizona. *Quaternary Research*, 76, 10–21.

Yoder, T. D., H. M. West, K. R. Adams, S. Murray, and E. M. Perry, 2007. Site 5LP242. In *Animas-La Plata Project: Ridges Basin Excavations: Eastern Basin Sites*, T. D. Yoder and J. M. Potter, (eds.), volume IV of SWCA Anthropological Research Paper No. 10, Pp. 265–298. Phoenix: SWCA Environmental Consultants.

Yoder, T. D., M. W. Lowe, K. R. Adams, S. Murray, and E. M. Perry, 2007. Site 5LP239. In *Animas-La Plata Project: Ridges Basin Excavations: Eastern Basin Sites*, T. D. Yoder and J. M. Potter, (eds.), volume IV of SWCA Anthropological Research Paper No. 10, Pp. 169–202. Phoenix: SWCA Environmental Consultants.

Yoder, T. D., E. M. Perry, K. R. Adams, S. Murray, and E. M. Perry, 2007. Site 5LP178. In *Animas-La Plata Project: Ridges Basin Excavations: Eastern Basin Sites*, T. D. Yoder and J. M. Potter, (eds.), Volume IV of SWCA Anthropological Research Paper No. 10, pp. 123–144. Phoenix: SWCA Environmental Consultants.

Yoder, T. D., H. M. West, K. R. Adams, and S. Murray, 2008. Site 5LP185. In *Animas-La Plata Project: Ridges Basin Excavations: North Central Sites*, T. D. Yoder and J. M. Potter, (eds.), Volume VII of SWCA Anthropological Research Paper No. 10, pp. 7–77. Phoenix: SWCA Environmental Consultants.

Young, Lisa C., 2004 Report on the Excavations at AZ J:14:36 (ASM). Report submitted to the Arizona State Museum and the State Historic Preservation Office.

Zier, C. J., and S. M. Kalasz, 1999. *Colorado Prehistory: A Context for the Arkansas River Basin*. Colorado Council of Professional Archaeologists, Fort Collins, Colorado.

Publications on Maize Research with a Focus on Southwest Maize and Maize Farming

Summary: The citations in this section present research on Southwest maize, the evolution/development of maize, the spread of maize into the Southwest, maize farming, and other topics. The maize research presented in this section began in the late 1800s and that continues to the present.

Adams, E. C., 1979. Cold Air Drainage and Length of Growing Season in the Hopi Mesas Area. *Kiva* 44:285-296.

Adams, J. L., 1999. Refocusing the Role of Food-Grinding Tools as Correlates for Subsistence Strategies in the U.S. Southwest. *American Antiquity* 64:475–498.

– 2005. Early Agricultural Period Grinding Technology. In *Material Cultures and Lifeways of Early Agricultural Communities in Southern Arizona*, R. J. Sliva, pp. 99-119. Anthropological Papers No. 35, Center for Desert Archaeology, Tucson, Arizona.

– 2015. San Pedro Phase Grinding Technology at Las Capas, AZ AA:12:111 (ASM). In *Implements of Change: Tools, Subsistence, and the Built Environment of Las Capas, and Early Agricultural Community in Southern Arizona*, J. M. Vint (ed.), pp. 95-159. Anthropological Papers No. 51, Archaeology Southwest, Tucson, Arizona.

Adams, J. L., J. S. Rychener, and A. J. Denoyer, 2015. *Las Capas Archaeological Project: Ground Stone and Maize Processing Experiments*. Technical Report 2014-02. Desert Archaeology Inc., Tucson, Arizona. Electronic document, https://www.archaeologysouthwest.org/pdf/tr2014-02_final.pdf

Adams, K. R. 1994. A Regional Synthesis of Zea mays in the Prehistoric American Southwest. In *Corn and Culture in the Prehistoric New World*, S. Johannessen and C. A. Hastorf (eds.), pp. 273-302. Westview Press, Boulder, Colorado.

– 2015. The Archaeology and Agronomy of Ancient Maize (*Zea Mays* L.). In *Arid Lands Agriculture: Understanding the Past for the Future*, edited by S. E. Ingram and R. C. Hunt, pp. 15–53. University of Arizona Press, Tucson. Arizona.

Adams, K. R., Meegan, C.M., Ortman, S.G., Howell, R.E., Werth, L.C., Muenchrath, D.A., O’Neill, M.K., Gardner, C.A.C., 2006. MAIS (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. (<http://spectre.nmsu.edu> (Projects and Results, Collaborative MAIS Experiment)). New Mexico State University

Adams, K. R., D. A. Muenchrath, and D. M. Schwindt, 1999. Moisture Effects on the Morphology of Ears, Cobs and Kernels of a North American Maize Cultivar, and Implications for the Interpretation of Archaeological Maize. *Journal of Archaeological Sciences* 26: 483-496.

Akerly, N. W., J. Howard, and R. McGuire, 1987. *La Ciudad Canals: A Study of Hohokam Irrigation Systems at the Community Level*. Anthropological Field Studies No. 17, Arizona State University, Tempe, Arizona.

Allison, J. R., C. M. Meegan, and S. S. Murry, 2008. Archaeology and Archaeobotany of Southern Piute Horticulture in the St. George Basin, Southwestern Utah. *Kiva* 73:417-449.

Altschul, J., and C. R. Van West, 1992. Agricultural Productivity Estimates for the Tonto Basin, A.D. 740-1370. In *Proceedings of the Second Salado Conference, Globe, AZ*, R. C. Lange and S. Gerwick (eds.), pp. 172-182. Occasional Paper 1992. Arizona Archaeological Society, Phoenix, Arizona.

Altieri, M. A., 2004. Linking Ecologists and Traditional Farmers in the Search for Sustainable Agriculture. *Frontiers in Ecology and the Environment* 2:35–42. doi:10.1890/1540-9295(2004)002[0035:LEATFI]2.0.CO;2.

Anderson, E., 1944. Maiz Reventador. *Annals of the Missouri Botanical Garden*, 32:301-314.

– 1976. Maize in the Southwest. Landscape Papers, pp.48-51. Turtle Island Foundation, Berkeley, California.

Anderson, E., and G. Carter, 1945. A Preliminary Survey of Maize in the Southwestern United States. *Annals of the Missouri Botanical Garden*, 32:297-322.

Anderson, K. C. and B. A. Bellorado, 2009. Selected Data and Interpretations from Weather Stations in Ridges Basin. In *Animas-La Plata Project, Vol. XIII - Special Studies*, J. M. Potter (ed.), pp 235-247. SWCA Environmental Consultants, Phoenix, Arizona.

Anschuetz, K. F., 1995. Saving a Rainy Day: The Integration of Diverse Agricultural Technologies to Harvest and Conserve Water in the lower Rio Chama Valley, New Mexico. In *Soil, Water, Biology, and Belief in Prehistoric Traditional Southwestern Agriculture*, H. W. Toll (ed.), pp. 25-

39. New Mexico Archaeological Council, Special Publication 2. Albuquerque, New Mexico, C & M Press, Denver, Colorado.

– 1998. *Not Waiting for Rain: Integrated Systems of Water Management by Pre-Columbian Pueblo Farmers in North-Central New Mexico*. Unpublished PhD Dissertation, Department of Anthropology, University of Michigan, Ann Arbor, Michigan.

– 2010. Women are Corn, Men are Rain: Agriculture and Movement among the Tewa in North-Central New Mexico between A.D. 1250 and 1598. In *Threads, Tints, and Edification: Papers in Honor of Glenna Dean*, E. J. Brown, K. Armstrong, D. M. Brugge, and C. J. Condie (eds.), pp.7-29. Papers of the Archaeological Society of New Mexico 36, Albuquerque, New Mexico.

Argumedo, A., (ed.) 2016. *Voices of Maiz*, Asociación ANDES: Adelita San Vicente Tello, Semillas de Vida, Ana Maria Castañeda, Asociación de Organizaciones de los Cuchumantes (ASOCUCH) David Lauer. Electronic document www.voicesofmaiz.org

Barker, G., 2009. *The Agricultural Revolution in Prehistory: Why Did Foragers Become Farmers?* Oxford University Press, Oxford, UK.

Barlow, R. K., 2002. Predicting Maize Agriculture among the Fremont: An Economic Comparison of Farming and Foraging in the American Southwest. *American Antiquity* 67:65-88.

– 2006. A Formal Model for Predicting Agriculture among the Fremont. In *Behavioral Ecology and the Transition to Agriculture*, edited by Douglas J. Kennett and Bruce Winterhalder, pp. 87–102. University of California Press, Los Angeles.

Barnes, A. C. et al., 2022. An Adaptive Teosinte Mexicana Introgression Modulates Phosphatidylcholine Levels and is Associated with Maize Flowering Time. *PNAS* 119: e2100036119. <https://doi.org/10.1073/pnas.2100036119>

Barr, D. M. R., 2001. *Ancient Maize in the Northern Southwest: Approaches to the Study of Variability*. Unpublished Master's Thesis, Department of Anthropology, Northern Arizona University, Flagstaff.

Barreiro, J., ed. 1989. Indian Corn of the Americas: Gift to the World. *Northeast Indian Quarterly* 6: 1-2.

Battillo, J., 2018. The Role of Corn Fungus in Basketmaker II Diet: A Paleonutrition Perspective on Early Corn Farming, *Journal of Archaeological Science: Reports* 21:64-70.

Beadle, G. W. 1939. Teosinte and the Origin of Maize. *Journal of Heredity*, 30:245-247.

– 1972. The Mystery of Maize. *Field Museum of Natural History, Bulletin*, 43:2-11.

Beale, N. H., 2014. *Social Interactions among Late Archaic and Incipient Agricultural Groups in the North American Southwest*. Unpublished PhD dissertation, Department of Anthropology, University of Oklahoma, Norman, Oklahoma.

Beck, M., 2001. Archaeological Signatures of Corn Preparation in the US Southwest. *The Kiva* 67:187-218.

Bellorado, B. A. 2007. *Breaking Down the Models: Reconstructing Prehistoric Subsistence Agriculture in the Durango District of Southwestern Colorado*. Unpublished Masters Thesis, Department of Anthropology, Northern Arizona University, Flagstaff, Arizona.

– 2009. Reconstruction of Prehistoric Subsistence Agriculture in Ridges Basin. In *Animas-La Plata Project Special Studies*, Vol. 13, J.M. Potter (ed.), pp.215-233. Anthropological Research Paper No. 10, SWCA, Phoenix, AZ.

Benson, L. V., 2011. Factors Controlling Pre-Columbian and Early Historic Maize Productivity in the American Southwest, Part 1: The Southern Colorado Plateau and Rio Grande Regions. University of Nebraska, Lincoln. Nebraska.

– 2011 Factors Controlling Pre-Columbian and Early Historic Maize Productivity in the American Southwest, Part 2: The Chaco Halo, Mesa Verde, Pajarito Plateau/Bandelier, and Zuni Archaeological Regions. *Journal of Archaeological Method and Theory* 18 (1), pp.61-109.

Benson, L. V., L. Cordell, K. Vincent, H. Taylor, J. Stein, G. L. Farmer, and K. Futa, 2003. Ancient Maize from Chacoan Great Houses: Where Was It Grown? *PNAS* 100:13111-13115.

Benz, B. F., and A. Long, 2000. Prehistoric Maize Evolution in the Tehuacan Valley. *Current Anthropologist* 41:459-465.

Berlin, G. L., D. E. Salas, and P. R. Geib, 1990. A Prehistoric Sinagua Agricultural Site in the Ashfall Zone of Sunset Crater, Arizona. *Journal of Field Archaeology* 17:1-16.

Berry, A., 1995. Biological Nitrogen Fixation and Soil Fertility in Southwestern Lands: Implications for Anasazi Agriculture. In *Soil, Water, Biology, and Belief in Prehistoric Traditional Southwestern Agriculture*, H. W. Toll, pp. 139-143. New Mexico Archaeological Council, Special Publication 2, C & M Press, Denver, Colorado.

Berry, M. S., 1982. *Time, Space, and Transition in Anasazi Prehistory*. University of Utah Press, Salt Lake City, Utah.

– 1985. The Age of Maize in the Greater Southwest: A Critical Review. In *Time, Space and Transition in Anasazi Prehistory*, pp.15-33. University of Utah Press, Salt Lake City, Utah.

Berry, C., and M. S. Berry, 1986. Chronological and Conceptual Models of the Southwestern Archaic. In *Anthropology of the Desert West: Essays in Honor of Jesse D. Jennings*, edited by Carol J. Condie and Don D. Fowler, pp. 253–327. University of Utah Press, Salt Lake City, Utah.

Blake, M., 2010. *Dating the Initial Spread of Zea mays*. In *Histories of Maize in Mesoamerica: Multidisciplinary Approaches*, edited by John E. Staller, Robert H. Tykot, and Bruce F. Benz, pp. 45–62. Routledge, New York.

– 2015. *Maize for the Gods: Unearthing the 9,000-Year History of Corn*. University of California Press, Oakland, California.

Blake, M., B. B. Benz, D. K. Moreiras, L. E. Masur, N. Jakobsen, and R. Wallace, 2017. Ancient Maize Map, Version 2.1: An Online Database and Mapping Program for Studying the Archaeology of Maize in the Americas. <http://en.ancientmaize.com/>. Laboratory of Archaeology, University of British Columbia, Vancouver.

Bocinsky, R. K. and M. D. Varien, 2017. Comparing Maize Paleoproduction Models with Experimental Data. *Journal of Ethnobiology* 37:282-307.

Bohrer, V. L., 1991. Recently Recognized Crops and Encouraged Plants among the Hohokam. *Kiva* 56:227-235.

– 1994. Archaeological Signatures of Corn Preparation in the U.S. Southwest. *Kiva* 67:187-218.

– 1994. Maize in Agricultural Traditions. In *Corn and Culture in the Prehistoric New World*, edited by Johannessen, S. and C. Hastorf, pp. 469–512. Westview Press, Boulder, Colorado.

Bohrer, V. L. and J. F. Doebley, 2006. Cultivated Plants from Salmon Ruin. In *Thirty-Five Years of Research at Salmon Ruins, New Mexico*, P. R. Reed, (ed.) Center for Desert Archaeology and Salmon Ruins Museum, pp. 721–739.

Bousselot, J. M., D. Muenchrath, A. D. Knapp, J. D. Reeder, 2017. Emergence and Seedling Characteristics of Maize Native to the Southwestern US. *American Journal of Plant Sciences*, 8, pp. 1304-1318.

Brenton, B P., 2003. Green Corn Ceremonialism and Ethnonutrition: A Case Study on the Biocultural Evolution of Maize Processing. *Nutritional Anthropology* 26:22–26.

Bressani, R., J. C. Turcios, and A. S. de Ruiz, 2002. Nixtamalization Effects on the Contents of Phytic Acid, Calcium, Iron and Zinc in the Whole Grain, Endosperm and Germ of Maize. *Food Science and Technology International* 8:81–86.

Brooks, R. H., L. Kaplan, H. C. Cutler, and T. W. Whitaker, 1962. Plant Material from a Cave on the Rio Zape, Durango, Mexico. *American Antiquity* 27:356-369.

Brown, G. B., 2012. Hisat'sinom Farmers and Their Fields, In *Hisat'sinom Ancient Peoples in a Land without Water*, C. E. Downum (ed.), pp. 119-123. School for Advanced Research Press, Santa Fe, New Mexico.

Brown, W. L., E. G. Anderson, and R. Tuchawena, Jr., 1952. Observations on Three Varieties of Hopi Maize. *American Journal of Botany*, 39:597-609.

Brown, W. L., and M. M. Goodman, 1977. The Races of Corn. In *Corn and Corn Improvement*, G. F. Sprague (ed.), pp. 49-84. No.18 in the Series Agronomy. American Society of Agronomy, Inc., Madison, Wisconsin.

Bryan, K., 1929. Floodwater Farming, *Geographical Review* 19:444-456.

– 1941. Pre-Columbian Agriculture in the Southwest as Conditioned by Periods of Alluviation. *Annals of the American Association of Geographers* 31:219-242.

Bye, R. A., and R. Shuster, 1984. Developing and Integrated Model for Contemporary and Archaeological Subsistence Systems. In *Prehistoric Agricultural Strategies in the Southwest*, S. K. Fish and P. R. Fish (eds.), pp. 125-145. Arizona State University, Tempe, Arizona.

Calloway, D., et al., 1974. The Superior Mineral Content of Some American Indian Foods in Comparison to Federally Donated Counterpart Commodities. *Ecology of Food Nutrition*, 5:185-205.

Carpenter, J., G. Sanchez, and E. Villapando, 2002. Of Maize and Migration: Mode and Tempo in the Diffusion of *Zea Mays* in Northwest Mexico and the American Southwest. In *Traditions, Transitions, and Technologies: Themes in Southwestern Archaeology*, S. H. Schlanger (ed.), pp. 245-258, University Press of Colorado, Boulder, Colorado.

– 2005. The Late Archaic/Early Agricultural Period in Sonora, Mexico. In *New Perspectives on the Late Archaic Across the Borderlands*, B. J. Vierra (ed.), pp. 3-40, University of Texas Press, Austin, Texas.

Carter, G. F., 1980. The Metate: An Early Grain-Grinding Implement in the New World. In *Early Native Americans: Prehistoric Demography, Economy, and Technology*, D. L. Bowman (ed.), pp.21-59, The Hague: Mouton Publishers.

Charles, M. C., and S. J. Cole, 2006. Chronology and Cultural Variation in Basketmaker II. *Kiva* 72:167-216.

Charles, M. C., L. M. Sessler, and T. D. Hovezak, 2006. Understanding Eastern Basketmaker II Chronology and Migrations. *Kiva* 72:217-238.

Colton, H. S., 1965. Experiments in Raising Corn in the Sunset Crater Ashfall area East of Flagstaff, Arizona. *Plateau* 37:77-79.

Cutler, H. C., 1952. A Preliminary Survey of Plant Remains of Tularosa Cave. In *Mogollon Cultural Continuity and Change*, P. S. Martin, J. B. Rinaldo, E. Bluhm, H. C. Cutler, and R. Grange (eds.), pp.461-479. Fieldiana: Anthropology 40.

Cutler, H. C., and Leonard W. Blake, 2001. North American Indian Corn. In *Plants from the Past*, by Leonard W. Blake and Hugh C. Cutler, pp. 1–18. University of Alabama Press, Tuscaloosa, Alabama.

Cutler, H. C., and W. Meyer, 1965. Corn and Cucurbits from Mesa Verde. In Contributions of the Wetherill Mesa Archaeological Project, *Memoirs of the Society for American Archaeology*, No. 19, pp. 136-152. Cambridge University Press.

da Fonseca, R. R. et al., 2015. The Origin and Evolution of Maize in the Southwestern United States, *Native Plants* 1:Article 14003. DOI:10.1038/plants.2014.3.

Dahl, K., 1990. Corn Soot Woman's Timeless Lesson: Eat Your Smut. *Permaculture Drylands Journal* 11:10–11, 14.

Damp, J. E., 2007. Zuni Emergent Agriculture: Economic Strategies and the Origins of Zuni. In *Zuni Origins: Toward a New Synthesis of Southwestern Archaeology*, D. A. Gregory and D. R. Wilcox (eds.), pp. 118-132, University of Arizona Press, Tucson, Arizona.

Damp, J. E., S. A. Hall, and S. J. Smith, 2002. Early Irrigation on the Colorado Plateau near Zuni Pueblo, New Mexico. *American Antiquity*, 67:665-676.

Dart, A., 1986. Sediment Accumulation along Hohokam Canals. *Kiva* 51:63-84.

Davis, S. W., M. E. Davis, I. Lucchitta, R. Finkel, and M. Caffee, 2000. Early Agriculture in Eastern Grand Canyon of Arizona, USA. *Geoarchaeology* 15:783–798.

Dello-Russo, R., 2006. Got Water? Modeling the Early Use of Maize in Regions of the Southwest Gila Mountains and Beyond. *New Mexico Botanist: Natural History of the Gila—A Symposium: 17-33*.

Dick, H. 1965. *Bat Cave*. Monograph 27. School of American Research, Santa Fe, New Mexico.

Dickerson, G., 2003. *Nutritional Analysis of New Mexico Blue Corn and Dent Corn Kernels*. Las Cruces: New Mexico State University Cooperative Extension Service Guide H-233.

Diehl, M. W., 2005. Morphological Observations on Recently Recovered Early Agricultural Period Maize Cob Fragments from Southern Arizona. *American Antiquity* 70:361-375.

– 2005. *Subsistence and Resource Use Strategies of Early Agricultural Communities in Southern Arizona*, Anthropological Papers No. 34. Center for Desert Archaeology, Tucson, Arizona.

DiPeso, C. C., 1984. The Structure of 11th Century Casas Grandes Agricultural System. In *Prehistoric Agricultural Strategies in the Southwest*, S. K. Fish and P. R. Fish (eds.), pp. 261-269. Arizona State University, Tempe, Arizona.

Doebley, J., and V. L. Bohrer, 1983. Maize Variability and Cultural Selection at Salmon Ruin, New Mexico. *Kiva* 49:19–37.

Doebley, J., J. D. Wendel, J.S.C. Smith, C. W. Stuber, and M. M. Goodman, 1988. The Origin of Cornbelt Maize: The Isozyme Evidence. *Economic Botany* 42:120–131.

Dominguez, S., 2002. Optimal Gardening Strategies: Maximizing the Input and Retention of Water in Prehistoric Fields In North Central New Mexico. *World Archaeology*, 34:131-163.

Doolittle, W. E., 1984. Agricultural Change as an Incremental Process. *Annals of the Association of American Geographers* 74:127-137.

– 1985. The Use of Check Dams for Protecting Downstream Agricultural Lands in the Prehistoric Southwest: A Contextual Analysis. *Journal of Anthropological Research* 41-279-305.

– 1990. *Canal Irrigation in Prehistoric Mexico: The Sequence of Technological Change*. University of Texas Press, Austin.

– 1993. Canal Irrigation at Casas Grandes: A Technological and Developmental Assessment of its Origins. In *Culture and Contact: Charles DiPeso's Gran Chichimeca*, A. I. Woosley and J. C. Ravesloot, pp. 133-151. Amerind Foundation, Dragoon, Arizona and University of New Mexico Press, Albuquerque, New Mexico.

– 2000. *Cultivated Landscapes of Native North America*. Oxford University Press, New York.

Doolittle, W. E., and J. B. Mabry, 2006. Environmental Mosaics, Agricultural Diversity, and the Evolutionary Adoption of Maize. In *Histories of Maize: Multidisciplinary Approaches to the Prehistory, Linguistics, Biogeography, Domestication, and Evolution of Maize*, edited by John E. Staller, Robert H. Tykot, and Bruce F. Benz, pp. 109–121. Elsevier, New York.

Doolittle, W. E. and J. A. Neely (eds.), *The Safford Valley Grids: Prehistoric Cultivation in the Southern Arizona Desert*, University of Arizona Press, Tucson, Arizona.

Dorshow, W. B., and W. H. Wills, 2022. Agricultural Suitability of the Chaco Canyon Region, New Mexico: Implications for Settlement Patterning During the Great House Period (ca. AD 850 to 1200). *Journal of Archaeological Science Reports* 46:103650.

Earle, F. R., J. J. Curtis, and J. E. Hubbard, J. E. 1946. Composition of the Component Parts of the Corn Kernel. *Cereal Chemistry* 23:504–511.

Eddy, F. W., 1961. *Excavations at Los Pinos Phase Sites in the Navajo Reservoir District*. Museum of New Mexico Papers in Anthropology No. 4. Museum of New Mexico Press, Santa Fe, New Mexico.

- Erwin, A. T., 1934. A Rare Specimen of *Zea mays* var. *saccharata* Found. *Science* 79:589.
- Ezzo, J. A., and W. L. Deaver, 1998. *Watering the Desert: Late Archaic Farming at the Costello-King Site*. Technical Series No. 68. Statistical Research, Tucson, Arizona.
- Ellwood, E. C., P. M. Scott, W. D. Lipe, R. G. Matson, and J. G. Jones, 2013. Stone-Boiling Maize with Limestone: Experimental Results and Implications for Nutrition among SE Utah Preceramic Groups. *Journal of Archaeological Science* 40:35-44.
- Emerson, R. A., 1924. Control of Flowering in Teosinte. *Journal of Heredity*, 15:41-48.
- Emerson, R. A., and H. H. Smith, 1950. *Inheritance of Number of Kernel Rows in Maize*. Cornell University Agricultural Experiment Station Memoirs 296, Ithaca, New York.
- Eubanks, M., 2001. An Interdisciplinary Perspective on the Origin of Maize. *Latin American Antiquity*, 12:91-98.
- Fadem, C. M., and P. Ermigiotti, 2015. Pedology, the Pueblo Farming Project, and the Village Ecodynamics Project: Intersections and Directions. Paper presented at the 79th Annual Meeting of the Society for American Archaeology, Austin, Texas. Manuscript on File, Crow Canyon Archaeological Center, Cortez, Colorado.
- Fadem, C. M., and S. R. Diederichs, 2019. Farming and the Great Sage Plain: Experimental Archaeology and the Basketmaker III soil Record. *Culture, Agriculture, Food and Environment*, pp.1-12.
- Fadem, C. M., et al. 2015. Geoarchaeology of the Pueblo Farming and Basketmaker Communities Projects. Manuscript on File, Crow Canyon Archaeological Center, Cortez, Colorado.
- Fairley, H. C. 2003. *Changing River: Time, Culture, and the Transformation of Landscape in the Grand Canyon*. Statistical Research Technical Series 79. Statistical Research inc., Tucson, Arizona.
- Finley, J. Byrd, E. Robinson, R. J. DeRose, and E. Hora, 2020. Multidecadal Climate Variability and the Florescence of Fremont Societies in Eastern Utah. *American Antiquity* 85: 93–112
- Fish, S. K., 2004. Corn, Crops, and Cultivation in the North American Southwest. In *People and Plants in Ancient Western North America*, P. E. Minnis (ed.), pp.115-156, Washington: Smithsonian Books.
- Fish, S. K. and P. R. Fish (eds.), 1984. *Prehistoric Agricultural Strategies in the Southwest*, Arizona State University, Tempe, Arizona.
- Fish, S. K., and P. R. Fish. 1994. Prehistoric Desert Famers of the Southwest. *Annual Review of Anthropology* 23:83–108.

Fish, P. R., S. K. Fish, and A. Long, and C. Miksicek, 1986. Early Corn Remains from Tumamoc Hill, Southern Arizona. *American Antiquity* 51:563-572.

Fish, P. R., S. K. Fish, A. MacWilliams, G. S. de Carpenter, and K. A. Adams, 2004. Growing Conditions and Crops: The Field Evidence. In *The Safford Valley Grids: Prehistoric Cultivation in the Southern Arizona Desert*, W. E. Doolittle and J. A. Neely (eds.), pp. 79-94. University of Arizona Press, Tucson, Arizona.

Fisher, C., 2020. Archaeology for Sustainable Agriculture. *Journal of Archaeological Research* 28:393-441. doi:10.1007/s10814-019-09138-5.

Flannery, K. V., 1986. *Guilda Naquitz: Archaic Foraging and Early Agriculture in Oaxaca Mexico*, Academic Press, Orlando, Florida.

Ford, R. I., 1980. The Color of Survival. In *Discovery*, 1 (80), pp.17-29. School of American Research, Santa Fe, New Mexico.

– 1981. Gardening and Farming Before A.D. 1000: Patterns of Prehistoric Cultivation North of Mexico. *Journal of Ethnobiology*, 1:6-27.

– 1981. *Prehistoric Food Production in North America*. Anthropological Papers No. 75. Museum of Anthropology, University of Michigan, Ann Arbor, Michigan.

– 1984. Ecological Consequences of Early Agriculture in the Southwest. In *Papers on the Archaeology of Black Mesa Arizona, Volume II*, S. Plog and S. Powell (eds.), pp:127-138. Southern Illinois University Press, Carbondale, Illinois.

– 1992. *An Ecological Analysis Involving the Population of San Juan Pueblo, New Mexico*. Garland Press, New York.

– 1994. Corn is Our Mother. In *Corn and Culture in the Prehistoric New World*. S. Johannessen and C. A. Hastorf (eds.), pp. 513-525. Westview Press, Boulder, Colorado.

– 2013. The Cultural Ecology of Jemez Cave. In *From Mountain Top to Valley Bottom: Understanding Past Land Use in the Northern Rio Grande, New Mexico*. B. J. Vierra (ed.), pp. 69-79, University of Utah Press, Salt Lake City, Utah.

Fussell, B., 1992. *The Story of Corn*, University of New Mexico Press, Albuquerque, New Mexico.

Galinat, W. C., 1970. *The Cupule and Its Role in the Origin and Evolution of Maize*. Agricultural Experiment Station Bulletin 585. University of Massachusetts, Amherst.

– 1985. Domestication and Diffusion of Maize. In *Prehistoric Food Production in North America*, F. I. Ford (ed.) pp. 245-278. Anthropological Papers, Museum of Anthropology University of Michigan, No. 75, Ann Arbor, Michigan.

Galinat, W. C. and J. H. Gunnerson, 1963. Spread of Eight-Row Maize from the Prehistoric Southwest. *Harvard University Botanical Museum*, Leaflet 20:117-160.

Geib, P. R., 1996. *Glen Canyon Revisited*. Anthropological Papers No. 119. University of Utah Press, Salt Lake City, Utah.

– 2011. *Foragers and Farmers of the Northern Kayenta Region: Excavations Along the Navajo Mountain Road*. University of Utah Press, Salt Lake City, Utah.

Gillreath-Brown, A., and R. K. Bocinsky., 2017. A Dialogue between Empirical and Model-Based Agricultural Studies in Archaeology. *Journal of Ethnobiology* 37:167–71. doi:10.2993/0278-0771-37.2.167.

Gillreath-Brown, A., L. Nagaoka, and S. Wolverton, 2019. A Geospatial Method for Estimating Soil Moisture Variability in Prehistoric Agricultural Landscapes. *PLOS ONE* 14 (8), <https://doi/10.1371/journal.pone.0220457>

Gliessman, S. R., 2014. *Agroecology: The Ecology of Sustainable Food Systems*. Third ed. Boca Raton, FL: CRC Press. doi:10.1201/b17881.

Gilman, P. A., E. M. Toney, and N. H. Beale, 2015. An Historical Perspective on Early Agriculture in the North American Southwest and Northwest Mexico. In *The Archaeology and Historical Ecology of Small-Scale Economies*, V. D. Thompson, and J. C. Waggoner (eds.), University Press of Florida, Gainesville, Florida.

Glover, D. V., and E. T. Mertz, 1987. Corn. In *Nutritional Quality of Cereal Grains: Genetic and Agronomic Improvements*, R. A. Olsen and K. J. Frey (eds.), pp. 183-336. Agronomy 28. American Society of Agronomy, Inc., Crop Science Society of America, Inc., and Soil Science Society of America, Inc., Madison, Wisconsin.

Grant, R. F., B. S. Jackson, J. R. Kiniry, and G. F. Arkin, 1989. Water Deficit Timing Effects on Yield Components in Maize. *Agronomy Journal* 81:61-65.

Gregory, D. A. (ed.), 2001. *Excavations in the Sant Cruz River Floodplain: The Early Agricultural Occupation at Los Pozos (AZ AA:12:91)*. Archaeological Papers No. 21. Center for Desert Archaeology, Tucson, Arizona.

– 2007. Gregory, D. A., M. N. Stevens, F. L. Nials, M. R. Schurr, and M. W. Diehl. *Excavations in the Sant Cruz River Floodplain: Further Investigations at Lox Pozos*. Anthropological Papers No. 34. Center for Desert Archaeology, Tucson, Arizona.

Greiser, S. T., and T. W. Greiser, 1995. Prehistoric Irrigation in the Taos Valley. In *Soil, Water, Biology and Belief in Prehistoric and Traditional Southwestern Agriculture*, W. Toll, (ed.), pp. 221-238. New Mexico Archaeological Council, Special Publication 2. Albuquerque, New Mexico, C & M Press, Denver, Colorado.

Greiser, S. T., and J. L. Moore, 1995. The Case for Prehistoric Irrigation in the Northern Rio Grande. In *Soil, Water, Biology and Belief in Prehistoric and Traditional Southwestern Agriculture*, W. Toll, (ed.), pp. 189-195. New Mexico Archaeological Council, Special Publication 2. Albuquerque, New Mexico, C & M Press, Denver, Colorado.

Hall, J. D., 2018. The Phoenix Basin Archaic. In *The Archaic Southwest: Foragers in an Arid Land*, B. J. Viera (ed.), pp. 52–65, University of Utah Press, Salt Lake City, Utah.

Hard, R. J., 1990. Agricultural Dependence in the Mountain Mogollon. In *Perspectives on Southwestern Prehistory*, P. A. Minnis and C. L. Redman (eds.), pp. 135-149, Westview Press, Boulder, Colorado.

Hard, R. J., R. P. Mauldin, and G. R. Raymond, 1996. Mano Size, Stable Carbon Isotope, and Macrobotanical Remains as Multiple Lines of Evidence of Maize Dependence in the American Southwest. *Journal of Archaeological Method and Theory*, 3:253-318.

Hard, R. J., and W. L. Merrill, 1992. Mobile Agriculturalists and the Emergence of Sedentism: Perspectives from Northern Mexico. *American Anthropologist* 94:601-620.

Hard, R. J. and J. R. Roney, 2005. The Transition to Farming on the Rio Casas Grandes and in the Southern Jornada Mogollon Region. In *The Late Archaic Across the Borderlands: From Foraging to Farming*, B. J. Vierra (ed.), pp. 141-186, The University of Texas Press, Austin, Texas.

– 2020. *Early Farming and Warfare in Northwest Mexico*. University of Utah Press, Salt Lake City, Utah.

Havener, C. I., 1999. The Influence of Zuni Runoff Agriculture on Microbial Populations in Cultivated Fields. M.S. thesis, Department of Renewable Resources, University of Wyoming, Laramie. UMI Number EP22174.

Hays-Gilpin, K. and M. Hegmon, 2005. The Art of Ethnobotany: Depictions of Maize and Other Plants in the Prehispanic Southwest. In *Research Essays on North American Archaeology, Ethnobotany, and Museology: Papers in Honor of Richard I. Ford*, M. Hegmon and B.S. Eisele (eds.), pp. 89-113. Anthropological Papers, Museum of Anthropology, University of Michigan, Ann Arbor, Michigan.

Hegmon, M. 1989. Risk Reduction and Variation in Agricultural Economics: Simulation of Hopi Agriculture. *Research in Economic Anthropology* 11:89-121.

Henderson, K. T., 2004. *Hohokam Farming on the Salt River Floodplain: Refining Models and Analytical Methods*. Anthropological Papers 43. Center for Desert Archaeology, Tucson, Arizona.

Herhahn, C., 1996. 14th Century Dry Farming Features in the Northern Rio Grande Valley, New Mexico. In *Soil, Water, Biology and Belief in Prehistoric and Traditional Southwestern*

Agriculture, W. Toll, (ed.), pp. 77-84. New Mexico Archaeological Council, Special Publication 2. Albuquerque, New Mexico, C & M Press, Denver, Colorado.

Hill, M. E. Jr., J. S. Bruder, M. E. Beck, and B. G. Phillips, 2008. Mobile Horticulturalists in the Western Papagueria. *Kiva* 74:33-68.

Hogan, P. F., 1987. *Prehistoric Agricultural Strategies in West-Central New Mexico*, Unpublished PhD Dissertation, Washington State University, Pullman, Washington.

– 1994. Foragers to Farmers II: A Second Look at the Adoption of Agriculture in Northwestern New Mexico. In *Archaic Hunter-Gatherer Archaeology in the American Southwest*, B. J. Vierra, (ed.), pp. 155-184, Contributions in Anthropology 13, Eastern New Mexico University, Portales, New Mexico.

Homburg, J. A., J. A. Sandor, and J. B. Norton, 2005. Anthropogenic Influences on Zuni Soils. *Geoarchaeology* 20:661–93. doi:10.1002/gea.20076.

Homburg, J. A., and J. A. Sandor, 2011. Anthropogenic Effects on Soil Quality of Ancient Agricultural Systems of the American Southwest. *Catena*, 85:144-154.

Howard, J. B., 1993. A Paleohydraulic Approach to Examining Agricultural Intensification in Hohokam Irrigation Systems. *Research in Economic Anthropology* 7:261–322.

Huber, E. K., 2005. Early Maize at the Old Corn Site (LA 157238). In *Archaeological Data Recovery in the New Mexico Transportation Corridor and First Five-Year Permit Area, Fence Lake Coal Mine Project, Catron County, New Mexico: Synthetic Studies and Summary*. Vol 4. E. K. Huber and C. R. Van West (eds.), pp 36.1-36.33. Technical Series No 84, Statistical Research, Tempe, Arizona.

Huber, E. K., and C. R. Van West, 2005. *Fence Lake Project*. Tempe, Statistical Research, Tempe, Arizona.

Huckell, B. B., 1996. The Archaic Prehistory of the North American Southwest. *Journal of World Prehistory* 10:305–373.

Huckell, L. W., 2005. Early Maize from LA 157238 Catron County, New Mexico. In *Archaeological Data Recovery in the New Mexico Transportation Corridor and First Five-Year Permit Area, Fence Lake Coal Mine Project, Catron County, New Mexico: Environmental Studies*. Vol 3. E. K. Huber and C. R. Van West (eds.), pp 30.1-30.17. Technical Series No 84, Statistical Research, Tempe, Arizona.

– 2006. Ancient Maize in the American Southwest: What Does It Look Like and What Can It Tell Us? In *Histories of Maize: Multidisciplinary Approaches to the Prehistory, Linguistics, Biogeography, Domestication, and Evolution of Maize*, J. R. Staller, Tykot, and B. Benz (eds.), pp. 97-197, Academic Press, Elsevier, Inc., Burlington, Maine.

Huckell, B. B., L. W. Huckell, and K. K. Benedict, 2002. Maize Agriculture and Rise of Mixed Farming-Foraging Economies in Southeastern Arizona During the Second Millennium BC. In *Traditions, Transitions, and Technologies*, S. H. Schalanger (ed.), pp. 137-159, University Press of Colorado, Boulder, Colorado.

Huckleberry, G., and B. Billman, 1998. Floodwater Farming, Discontinuous Ephemeral Streams, and Puebloan Abandonment in Southwestern Colorado. *American Antiquity* 63:595-616.

Hurst, C. T., and E. Anderson, 1949. A Corn Cache from Western Colorado. *American Antiquity*, 14:161-167.

Ingram, S. E., and R. C. Hunt, R. C. (eds.), 2015. *Traditional Arid Lands Agriculture: Understanding the Past for the Future*. University of Arizona Press, Tucson.

Jaradat, A. A., 2013. Perceptual Distinctiveness in Native American Maize (*Zea mays* L.) Landraces has Practical Implications. *Plant Genetic Resources* 11:266–78. doi:10.1017/S1479262113000063.

Jett, S. C., 1991. Split-Twig Figurines, Early Maize, and a Child Burial in East Central Utah. *Utah Archaeology* 4(1):23–31.

Johannessen, S., and C. Hastorf, eds., 1994. *Corn and Culture in the Prehistoric New World*. Boulder, CO: Westview Press.

Johnson, E. S., and J. M. Marston, 2020. The Experimental Identification of Nixtamalized Maize through Starch Spherulites. *Journal of Archaeological Science* 113:Article 105056. DOI:10.1016/j.jas.2019.105056.

Jones, V. H. and R. L. Fonner, 1954. Appendix C. Plant Materials from Sites in the Durango and La Plata Areas, Colorado. In *Basketmaker II Sites Near Durango Colorado*, E. H. Morris and R. F. Burgh (eds.), pp. 93-115. Publication 604. Carnegie Institution of Washington. Washington, D. C.

Katz, S., M. L. Hediger, and L. A. Valleroy, 1974. Traditional Maize Processing Techniques in the New World. *Science* 184:765–773.

Kennett, D. J., D. R. Piperno, J. G. Jones, H. Neff, B. Voorhies, M. K. Walsh, and B. J. Culleton, 2010. Pre-Pottery Farmers on the Pacific Coast of Southern Mexico. *Journal of Archaeological Science* 37:3401–3411.

Kistler, L., H. B. Thakar, A. M. VanDerwarker, A. Domic, A. Bergström, R. J. George, T. K. Harper, R. G. Allaby, K. Hirth, and D. J. Kennett, 2020. Archaeological Central American Maize Genomes Suggest Ancient Gene Flow from South America. *Proceedings of the National Academy of Sciences* 117:33124–29. DOI: 10.1073/pnas.2015560117.

Kohler, T. A., 2012. Modeling Agricultural Productivity and Farming Effort. In *Emergence and Collapse of Early Villages: Models of Central Mesa Verde Region Archaeology*, T. A. Kohler and M. D. Varien (eds.), pp. 85-11. University of California Press, Berkeley, California.

Kohler, T. A., and K. Reese, 2014. Long and Spatially Variable Neolithic Demographic Transition in the North American Southwest. *PNAS* 111:10101–10106.

Kohler, T. A., et al., 2008. The Neolithic Demographic Transition in the U.S. Southwest. *American Antiquity* 73:645-669.

Kruse-Peeples, M. 2013. *The Ancient Agroecology of Perry Mesa: Integrating Runoff, Nutrients, and Climate*. Unpublished PhD Dissertation, Arizona State University, Tempe, Arizona.

Kurilich, A. C., and J. A. Juvik, 1999. Quantification of Carotenoid and Tocopherol Antioxidants in *Zea mays*. *Journal of Agricultural and Food Chemistry* 47:1948–1955.

Lang, R. W., 1995. The Fields of San Marcos: Agriculture at a Great Town of the Galisteo Basin, Northern New Mexico. In *Soil, Water, Biology and Belief in Prehistoric and Traditional Southwestern Agriculture*, W. Toll, (ed.), pp. 41-76. New Mexico Archaeological Council, Special Publication 2. Albuquerque, New Mexico, C & M Press, Denver, Colorado.

Lascaux, A. and I. Hesse, 2002. *The Early San Pedro Village Phase Village: Las Capas, Arizona AA:12:111 (ASM)*. Cultural Resource Report 01-100. SWCA, Tucson, Arizona.

Laumbach, K. 2014. Serendipity and Old Corn in La Canada Alamosa. In *Current Research on the Archaic in New Mexico. NewsMAC: Newsletter of the New Mexico Archeological Council* 2014-3:21–23.

LeBlanc, S. A., 2008. The Case for Early Farmer Migration into the Greater American Southwest. In *Archaeology Without Borders, Contact, Commerce, and Change in the U.S. Southwest and Northwestern Mexico*, L. D. Webster and M. E. McBrinn (eds.), pp 107–142. University Press of Colorado, Boulder, Colorado.

Lesure, R. G., L. S. Martin, K. J. Bishop B. Jackson, and M. C. Chykerda, 2014. The Neolithic Demographic Transition in Mesoamerica. *Current Anthropology* 55:654–664.

Lesure, R. G., R. J. Sinensky, G. Schachner, T. A. Wake, and K. J. Bishop, 2021. Large-Scale Patterns in the Agricultural Demographic Transition of Mesoamerica and Southwestern North America, *American Antiquity*, 86:593-612.

Lightfoot, D. R., 1994. Morphology and Ecology of Lithic-Mulch Agriculture. *Geographical Review* 84:172-185.

– 1995. The Construction and Configuration of Anasazi Pebble-Mulch Gardens in the Northern Rio Grande. *American Antiquity* 60:459-470.

Lightfoot, D. R., and F. W. Eddy, 1994. The Agricultural Utility of Lithic-Mulch Gardens: Past and Present. *GeoJournal* 34:425-437.

Lipe, W. D., 1993. The Basketmaker II Period in the Four Corners Area. In *Anasazi Basketmaker: Papers from the 1990 Wetherill-Grand Gulch Symposium*, edited by Victoria M. Atkins, pp. 1-10. Utah Bureau of Land Management Cultural Resource Series, No. 24, Bureau of Land Management, Salt Lake City.

Luebben, R. A., J. G. Anderson, and L. C. Herold, 1986. Elvino Whetten Pueblo and Its Relationship to Terraces and Nearby Small Structures, Chihuahua, Mexico. *Kiva* 51-165-187.

Lyneis, M. M. 1995. The Virgin Anasazi, Far Western Puebloans. *Journal of World Prehistory* 9:199–241.

Mabry, J. B., 1996. *Canals and Communities: Small-Scale Irrigation Systems*. University of Arizona Press, Tucson, Arizona

– 2002. The Role of Irrigation in the Transition to Agriculture and Sedentism in the Southwest: A Risk Management Model. In *Traditions, Transitions, and Technologies*, S. H. Schalanger (ed.), pp. 178-199, University Press of Colorado, Boulder, Colorado.

– 2005. Diversity in Early Southwestern Farming and Optimization Models of Transitions to Agriculture. In *Subsistence and Resource Use Strategies of Early Agricultural Communities in Southern Arizona*, M.W. Diehl (ed.), pp. 113-152. Anthropological Papers No. 34. Center for Desert Archaeology, Tucson, Arizona.

– 2008. *Las Capas: Early Irrigation and Sedentism in a Southwestern Floodplain*. Anthropological Papers No. 28. Center for Desert Archaeology, Tucson, Arizona.

Mabry, J. B., and W. E. Doolittle, 2008. Modeling the Early Agricultural Frontier in the Desert Borderlands. In *Archaeology Without Borders: Contact, Commerce, and Change in the U.S. Southwest and Northwestern Mexico*, L. D. Webster and M. E. McBrinn (eds), pp 155–184. University Press of Colorado, Boulder, Colorado.

MacWilliams, A. C., R. J. Hard, J. R. Roney, K. R. Adams, and W. L. Merrill, 2006. *Investigaciones de los Sitios de Cultivo de Maiz Temprano en Chihuahua: Informe de la Temporada de 2003*. Informe Técnico al Consejo de Arqueología, Instituto de Antropología e Historia. Mexico-North Research Network, Washington, D.C.

Manglesdorf, P. C., 1974. *Corn: It's Origin, Evolution, and Improvement*. Cambridge, Belknap Press of Harvard University Press.

– 1983. The Mystery of Corn: New Perspectives, *Proceedings of the American Philosophical Society*, 127:215-247.

– 1986. The Origin of Corn. *Scientific American*, 255:80-86.

Mangelsdorf, P. C., and R. B. Lister, 1956. Archaeological Evidence on the Evolution of Maize in Northwestern Mexico. *Botanical Museum Leaflets, Harvard University* 17 (6):151–178.

Mangelsdorf, P. C., R. S. MacNeish, and W. C. Galinat, 1964. Domestication of Corn. *Science* 143:538-545.

– 1967. Prehistoric and Wild Cultivated Maize. In *The Prehistory of the Tehuacan Valley I: Environment and Subsistence*, D. S. Byers (ed.), pp. 178-200. University of Texas Press, Austin, Texas.

Marshall, M. P., and H. Walt, 2007. The Eastern Homeland of San Juan Pueblo, Tewa Land and Water Use in the Santa Cruz and Truchas Watersheds: An Archaeological and Ethnographic Study. Cibola Research Consultants. Report No. 432. Corrales, New Mexico.

Martin P. S., J. B. Rinaldo, E. Bluhm, H. C. Cutler, and R. Grange, Jr., 1952. *Mogollon Cultural Continuity and Change: The Stratigraphic Analysis of Tularosa and Cordova Caves*. Fieldiana: Anthropology Volume 40. Chicago Museum of Natural History, Chicago.

Martin, P. S., and J. Schoenwetter, 1960. America's Oldest Cornfield. *Science* 132:33-34.

Masse, B., 1981. Prehistoric Irrigation Systems in the Salt River Valley. *Science*, 214:408-415.

Matson, R. G., 1991. *The Origins of Southwestern Agriculture*. University of Arizona Press, Tucson, Arizona.

– 2002. The Spread of Maize Agriculture into the U.S. Southwest. In *Examining the Farming/Landscape Dispersal Hypothesis*, P. Bellwood and C. Renfrew (eds.), pp.341-356. Cambridge, UK: McDonald Institute for Archaeological Research, University of Cambridge.

– 2016 The Nutritional Context of the Pueblo III Depopulation of the Northern San Juan: Too Much Maize? *Journal of Archaeological Science: Reports*, 5:622-631.

Maule, S., 1963. Corn Growing at Wupatki. *Plateau* 36:29-32.

Maxwell, T. D., and K. F. Anschutez, 1992. The Southwestern Ethnographic Record and Prehistoric Agricultural Diversity. In *Gardens of Prehistory: The Archaeology of Settlement Agriculture in Greater Mesoamerica*, T. W. Killion (ed.), pp. 35-68. University of Alabama Press, Tuscaloosa, Alabama.

McClintock, B. 1950. The Origin and Behavior of Mutable Loci in Maize. *PNAS* 36:344–355.

McNeil, L. D., and D. L. Shaul, 2018. Western Basketmakers: Social Networking among Uto-Aztecan Foragers and Migrant Farmers on the Colorado Plateau. *Kiva* 84:203–236.

Mercer, K., Á. Martínez-Vásquez, and H. R. Perales, 2008. Asymmetrical Local Adaptation of Maize Landraces along an Altitudinal Gradient. *Evolutionary Applications* 1(3):489–500. doi:10.1111/j.1752-4571.2008.00038.x

Mertz, E. T., L.S. Bates, and O.E. Nelson, 1964. Mutant Gene That Changes Protein Composition and Increase Lysine Content of Maize Endosperm. *Science* 145:279–280.

Merrill, W. L., 2012. The Historical Linguistics of Uto-Aztecan Agriculture, *Anthropological Linguistics* 54:203-260.

Merrill, W. L., R. J. Hardb, J. B. Mabry, G. J. Fritz, K. R. Adams, J. R. Roney, and A. C. MacWilliams, 2009. The Diffusion of Maize to the Southwestern United States and Its Impact. *PNAS* 106:21019-21026.

Miksicek, C. H., 1979. From Parking Lots to Museum Basements: The Archaeobotany of the St. Mary's Site. *The Kiva* 45:131-140.

Mills, P. R., 1985. Some Possible Effects of Culture, Physiology, and Environment on the Exploitation of Maize Crops in the Prehistoric Southwest. Manuscript on File, Crow Canyon Archaeological Center, Cortez, Colorado.

Miller, M. R., and N. A. Kenmotsu, 2004, Prehistory of the Jornada Mogollon and Eastern Trans-Pecos Regions of West Texas, T. K. Pertula (ed.), pp. 205-265, Texas A&M University Press, College Station, Texas.

Mihesuah, D. A., and E. Hoover, eds., 2019. *Indigenous Food Sovereignty in the United States: Restoring Cultural Knowledge, Protecting Environments, and Regaining Health*. Norman: University of Oklahoma Press.

Minnis, P. E., 1985. Domesticating People and Plants in the Greater Southwest. In *Prehistoric Ford Production in North America*, edited by Richard I. Ford, pp. 309–340. University of Michigan Anthropological Papers No 75. Museum of Anthropology, Ann Arbor.

– 1992. Earliest Plant Cultivation in the Desert Borderlands of North America, In *The Origins of Agriculture*, C. W. Cowan and P. J. Watson, pp. 121-142, Smithsonian Institution Press, Washington, D. C.

– 2013. *New Lives for Ancient and Extinct Crops*. University of Arizona Press, Tucson.

Minnis, P. E., M. E. Whalen, and R. E. Howell, 2006. Fields of Power: Upland Farming in the Prehispanic Casas Grandes Polity, Chihuahua, Mexico. *American Antiquity* 71:707-722.

Moore, J. L., 1995. Prehistoric Irrigation at Pot Creek Pueblo. In *Soil, Water, Biology and Belief in Prehistoric and Traditional Southwestern Agriculture*, W. Toll, (ed.), pp. 209-220. New Mexico Archaeological Council, Special Publication 2. Albuquerque, New Mexico, C & M Press, Denver, Colorado.

Morris, E. H. and R. F. Burgh, 1954. *Basketmaker II Sites Near Durango, Colorado*. Carnegie Institution of Washington, Publication 604, Washington, D. C.

Mt.Pleasant, J., 2015. A New Paradigm for Pre-Columbian Agriculture in North America. *Early American Studies: An Interdisciplinary Journal*, vol. 13 no. 2, 2015, p. 374-412. *Project MUSE*, doi:10.1353/eam.2015.0016.

Muenchrath, D. A. 1995. *Productivity, Morphology, Phenology, and Physiology of a Desert-Adapted Native American Maize (Zea mays L.) Cultivar*. PhD dissertation, Department of Agronomy, Iowa State University, Ames.

Muenchrath, D. A., M. Kuratomi, J. A. Sandor, and J. A. Homburg, 2002. Observational Study of Maize Production Systems of Zuni Farmers in Semiarid New Mexico. *Journal of Ethnobiology* 22:1–33.

Muenchrath, D. A. and R. J. Salvador, 1995. Maize Productivity and Agroecology: Effects of Environment and Agricultural Practices on the Biology of Maize. In *Soil, Water, Biology and Belief in Prehistoric and Traditional Southwestern Agriculture*, W. Toll, (ed.), pp. 303-333. New Mexico Archaeological Council, Special Publication 2. Albuquerque, New Mexico, C & M Press, Denver, Colorado.

Muenchrath, D. A., J. A. Sandor, J. B. Norton, and J. A. Homburg, 2017. A Maize Experiment in a Traditional Zuni Agroecosystem. *Journal of Ethnobiology* 37:172–95. doi:10.2993/0278- 0771-37.2.172.

Nabhan, Gary, P. 1977. Viable Seeds from Prehistoric Caches? Archaeobotanical Remains in Southwestern Folklore. In *The Kiva* 43:143-159.

– 1979. The Ecology of Floodwater Farming in Arid Southwestern North America. *Agro-Ecosystems* 5:245-255.

– 1983. Papago Fields: Arid Lands Ethnobotany and Agricultural Ecology. Unpublished PhD Dissertation, Arid Lands Resource Sciences Committee, University of Arizona, Tucson, Arizona.

– 2013. *Growing Food in a Hotter, Drier Land: Lessons From Desert Farmers on Adapting to Climate Uncertainty*. White River Junction, VT: Chelsea Green Publishing.

Nankar, A. N., H. F. Omar, P. M. Scott, and R. C. Pratt, 2017. Grain and Nutritional Quality Traits of Southwestern U.S. Blue Maize Landraces. *Cereal Chemistry* 94:950–955.

Nankar, A., L. Grant, P. Scott, and R. C. Pratt. 2016. Agronomic and Kernel Compositional Traits of Blue Maize Landraces from the Southwestern United States. *Crop Science* 56:2663–74. doi:10.2135/cropsci2015.12.0773.

Neely, J. B., 2001. Prehistoric Agricultural Fields and Water Management Technology of the Safford Valley, Southeastern Arizona. *Antiquity* 75:681-682.

– 2005. Prehistoric Agricultural and Settlement Systems in Lefthand Canyon, Safford Valley, Southeastern Arizona. In *Inscriptions: Papers in Honor of Richard and Natalie Woodbury*, R. N. Wiseman and T. O’Laughlin, and C. T. Snow (eds.), pp.145-169. Papers of the Archaeological Society of New Mexico 31. Albuquerque, New Mexico.

Netting, Robert, McC., 1990. Population, Permanent Agriculture, and Politics: Unpacking the Evolutionary Portmanteau. In *Evolution of Political Systems*, S. Upham (ed.) pp. 21-61. Cambridge University Press, Cambridge.

– 1993. *Smallholders, Householders*. Stanford University Press, Stanford, California.

Norton, J. B., J. A. Sandor, C. S. White, 2003. Hillslope Soils and Organic Matter Dynamics with a Native American Agroecosystem on the Colorado Plateau. *Soil Science Society of America Journal* 67:225-234.

– 2007. Runoff and Sediments from Hillslope Soils with a Native American Agroecosystem. *Soil Science Society of America Journal* 71:476-483.

Nuss, E. T., and S. A. Tanumihardjo, 2010. Maize: A Paramount Staple Crop in the Context of Global Nutrition. *Comprehensive Reviews in Food Science and Food Safety* 9:417–36. doi:10.1111/j.1541-4337.2010.00117.x.

Oas, S. E., 2019. *Cibola Breadstuff: Foodways and Social Transformation in the Cibola Region A.D. 1150-1400*. Unpublished PhD dissertation, School of Human Evolution and Social Change, Arizona State University, Tempe, Arizona.

Oas, S. E. and K. R. Adams, 2022. The Nutritional Content of Five Southwestern US Indigenous Maize (*Zea mays* L.) Landraces of Varying Endosperm Type, *American Antiquity*, 87:284-302.

Pak, N., I. Barja, and M. A. Tagle, 1975. Chemical Composition, Protein Quality and Protein Value of Opaque-2 and Other Varieties of Maize at Different Stages of Ripening. *Ecology of Food and Nutrition* 4:177–181.

Phillips, D. A. Jr., 2009. Adoption and Intensification of Agriculture in the North American Southwest: Notes Toward a Quantitative Approach. *American Antiquity* 74:691-707.

Piperno, D. R. and K. V. Flannery, 2001. The Earliest Archaeological Maize (*Zea mays* L.) from Highland Mexico: New Accelerator Mass Spectrometry Dates and Their Implications. *PNAS* 98:2101-2103.

Piperno, D. R., A. J. Ranere, I Hoist, J. Iriarte, and R.I Dickau, 2009. Starch Grain and Phytolith Evidence for the Early Ninth Millenium B.P. Maize from the Central Balsas River Valley, Mexico. *PNAS* 106:5019-50124.

Pool, M. D., 2002. *Prehistoric Mogollon Agriculture in the Mimbres River Valley, Southwestern New Mexico: A Crop Simulation and GIS Approach*. Unpublished PhD dissertation, Anthropology Department, University of Texas, Austin, Texas.

– 2013. Mimbres Mogollon Farming. In *Soils, Climate, and Society: Archaeological Investigations in Ancient America*, J. D. Wingard and S E. Hayes (eds.) pp. 85-107. University Press of Colorado, Boulder, Colorado.

Post, S. S., 2013. Transitional Archaic and Emergent Agricultural Settlement in the Lowland-Upland Settings of the Northern Rio Grande, New Mexico. In *From Mountain Top to Valley Bottom, Understanding Past Land Use in the Northern Rio Grande Valley, New Mexico*. B. J. Vierra (ed.), pp. 80-94, University of Utah Press, Salt Lake City, Utah.

Potter, J. M., 2010. Basketmaker II Sites. In *Animas-La Plata Project: Final Synthetic Report, Volume XVI*, J. M. Potter (ed.), pp.51-75. SWCA Anthropological Research Papers 10. SWCA Environmental Consultants, Phoenix, Arizona.

Powell, S., and F. E. Smiley, 2002. *Prehistoric Culture Change on the Colorado Plateau: Ten Thousand Years on Black Mesa*, University of Arizona Press, Tucson, Arizona.

Railey, J. A., 2016. Early Farming and Fate of Archaic Hunter-Gatherers in the Albuquerque Basin. In *Late Holocene Foragers and Famers in the Desert West*, B. J. Roth and M. McBrinn, pp. 16-57, University of Utah Press, Salt Lake City, Utah.

Ranere, A. J. et al., 2009. The Cultural and Chronological Context of Early Holocene Maize and Squash Domestication in the Central Balsas River Valley, Mexico. *PNAS* 106:5014-5018.

Ravesloot, J. C., J. A. Darling, and M. R. Waters, 2009. Hohokam and Pima-Maricopa Irrigation Agriculturalists: Maladaptive or Resilient Societies. In *The Archaeology of Environmental Change*, C. Fisher, J. B. Hill, and G. Feinman (eds.), pp. 232-248. University of Arizona Press, Tucson, Arizona.

Rhode, D., 1995. Estimating Agricultural Carrying Capacity in the Suzi Region, West-Central New Mexico: A Water Allocation Model. In *Soil, Water, Biology, and Belief in Prehistoric Traditional Southwestern Agriculture*, H. W., Toll, (ed.), pp. 85-100. New Mexico Archaeological Council Special Publication 2. Albuquerque, New Mexico, C & M Press, Denver, Colorado.

Robbins, J. S. and C. E. Domingo, 1953. Some Effects of Severe Soil Moisture Deficits at Specific Growth Stages of Corn. *Agronomy Journal* 45:44-59.

Roberts, H., and C. Harper, 2017. Eagle's Watch, Locus 2, Chapter 6: Early Agricultural Component. In *Jackson Flat Archaeological Project*, compiled by Heidi Roberts. Volume 2: Archaic Period. HRA Inc. Conservation Archaeology Report 9-12. Las Vegas, Nevada.

Rocek, T. R., 1995. Sedentarization and Agricultural Dependence: Perspectives from the Pithouse-to-Pueblo Transition in the American Southwest. *American Antiquity* 60:218-239.

Roney, J. R. and R. J. Hard, 2002. Early Agriculture in Northwestern Chihuahua. In *Traditions, Transitions, and Technologies: Themes in Southwestern Archaeology*, S. H. Schlanger (ed.), pp. 163-180, University Press of Colorado, Boulder, Colorado.

Rosenswig, R. M., A. M. VanDerwarker, B. Culleton, and D. J. Kennett, 2015. Is It Agriculture Yet? Intensified Maize-Use at 1000 cal. BC in the Soconusco and Mesoamerica. *Journal of Anthropological Archaeology* 40:89–108.

Roth, B. J., 1992. Sedentary Agriculturalists or Mobile Hunter-Gatherers? Recent Evidence on the Late Archaic Occupation of the Northern Tucson Basin. *Kiva* 57:291-314.

– 2006. The Role of Gender in the Adoption of Agriculture in the Southern Southwest. *Journal of Anthropological Research* 62:513-538.

– 2014. Foragers, Farmers, and In Between: Variability in the Late Archaic of the Southern Southwest. In *Archaeology in the Great Basin and Southwest: Papers in Honor of Don D. Fowler*, N. J. Parezo and J. C. Janetski (eds.), pp. 98-108, University of Utah Press, Salt Lake City, Utah.

– 2016. *Agricultural Beginnings in the American Southwest*. Roman and Littlefield, Lanham, Maryland.

Roth, B. J., and A. Freeman, 2008. The Middle Archaic Period and the Transition to Agriculture in the Sonoran Desert of Southern Arizona. *Kiva* 80:115-136.

Roth, B. J., and K. Wellman, 2001. New Insights into the Early Agricultural Period in the Tucson Basin: Excavations at the Valley Farms Site. *Kiva* 69:59-79.

Ryu, S. H., L. C. Werth, S. Nelson, J. C. Scheerens, and R. C. Pratt, 2013. Variation of Kernel Anthocyanin and Carotenoid Pigment Content in USA/Mexico Borderland Land Races of Maize. *Economic Botany* 67:98–109.

Sagmiller, J. J., 1998. The Maize from Black Dog Cave: Testing the Concept of Races of Maize in the American Southwest. *UNLV Retrospective Theses & Dissertations* 940.
<http://dx.doi.org/10.25669/p40b-i07j>

Sandor, J. A., 1983. *Soils at Prehistoric Agricultural Terracing Sites in New Mexico*, Unpublished PhD Dissertation, University of California Berkeley, Berkeley, California.

– 1995. Searching Soil for Clues about Southwest Prehistoric Agriculture. In *Soil, Water, Biology and Belief in Prehistoric and Traditional Southwestern Agriculture*, W. Toll, ed, pp. 119-137. New Mexico Archaeological Council, Special Publication 2. Albuquerque, New Mexico, C & M Press, Denver, Colorado..

Sandor, J. A., and P. L. Gersper, 1988. Evaluation of Soil Fertility in some Prehistoric Agricultural Terraces in New Mexico. *Agronomy Journal* 80:846–50. doi:10.2134/agronj1988.00021962008000050033x.

Sandor, J. A., and J. A. Homburg, 2015. Agricultural Soils of the Prehistoric Southwest: Known Unknowns. In *Arid lands agriculture: Understanding the Past for the Future*, ed. S. E. Ingram and R. C. Hunt, 54–88. Tucson: University of Arizona Press.

Sandor, J. A., J. B. Norton, J. A. Homburg, D. A. Muenchrath, C. S. White, S. E. Williams, C. I. Havener, and P. D. Stahl, 2007. Biogeochemical Studies of a Native American Runoff Agroecosystem. *Geoarchaeology* 22:359–386.

Scarborough, V. L., 2003. *The Flow of Power: Ancient Water Systems and Landscapes*. School of American Research Press, Santa Fe, New Mexico.

Schroeder, B., 2022. Evidence of Late Archaic Maize Use in the Big Bend Region of West Texas, *Kiva* 88:1-26.

Schroedl, A. R., 2021a. *From the Balsas Region in Mexico to the Tucson Basin in Arizona: The Lowland Route of Maize Introduction*. Manuscript available from alan_schroedl@p-iii.com.

– 2021b. Early Maize Caches on the Northern Colorado Plateau. *Southwestern Lore* (in press)

– 2021c. The Spread of Maize Across the American Southwest: A Wave of Advance Model. *Utah Archaeology*, (in press).

– 2022. Fremont Dent Maize on the Northern Colorado Plateau. *Kiva* 88:347-354.

Serna-Saldivar, S. O., M. H. Gomez, and L. W. Rooney, 1990. Technology, Chemistry, and Nutritional Value of Alkaline Cooked Corn Products. In *Advances in Cereal Science and Technology Vol. 10*, ed. Y. Pomeranz, pp. 243–307. American Association of Cereal Chemists, St. Paul, Minnesota.

Simmons, A. H., 1986. New Evidence for the Early Use of Cultigens in the American Southwest. *American Antiquity* 51:73-89.

– 2006. Early People, Early Maize, and Late Archaic Ecology in the Southwest. In *Environmental Change and Human Adaptation in the Ancient American Southwest*, D. Doyel and J. Dean, (eds.), pp.10-25, University of Utah Press, Salt Lake City, Utah.

Smiley, F. E., 1994. The Agricultural Transition in the Northern Southwest: Patterns in the Current Chronometric Data. *Kiva* 60:165-189.

Smith, B. 1995. *The Emergence of Agriculture*. Freeman, New York.

– 1997. Reconsidering the Ocampo Caves and the Era of Incipient Cultivation in Mesoamerica. *Latin American Antiquity* 8:342-383.

– 2005. Reassessing Coxcatlan Cave and the Early History of Domesticated Plants in Mesoamerica. PNAS 102:9438–9445.

Snow, D. H., 1991. Upland Prehistoric Maize Agriculture in the Eastern Rio Grande and its Peripheries. In *Farmers, Hunters, and Colonists: Interaction Between the Southwest and Southern Plains*, K. A. Spielmann (ed.), pp. 71-88, University of Arizona Press, Tucson, Arizona.

Spielmann, K. A., M. Nelson, S. Ingram, and M. A. Peeples, 2011. Sustainable Small-Scale Agriculture in Semi-arid Environments. *Ecology and Society* 16(1).
<http://www.ecologyandsociety.org/vol16/iss1/art26/>

Staller, J. E., 2010. *Maize Cobs and Cultures: History of Zea mays L.* Springer-Verlag. Berlin.

Staller, J., R. Tykot, and B. Benz, 2006. *Histories of Maize: Multidisciplinary Approaches to the Prehistory, Linguistics, Biogeography, Domestication, and Evolution of Maize*. Academic Press, Elsevier, Inc., Burlington, Maine.

Stone, G. D., and C. E. Downum. 1999. Non-Boserupian Ecology and Agricultural Risk: Ethnic Politics and Land Control in the Arid Southwest. *American Anthropologist* 101:113-128.

Sturtevant, E. L., 1899. *Varieties of Corn*. Office of Experiment Stations Bulletin 57. US Department of Agriculture, Washington DC.

Sullivan, A. P. III, 1982. Mogollon Agrarian Ecology. *Kiva* 48:1-15.

– 2000. Effects of Small-Scale Prehistoric Runoff Agriculture on Soil Fertility: The Developing Picture from Upland Terraces in the American Southwest. *Geoarchaeology: An International Journal* 15:291-314.

– 2015. The Archaeology of Ruderal Agriculture. In *Traditional Arid Lands Agriculture: Understanding the Past for the Future*. S. E. Ingram, and R. C. Hunt, R. C. (eds.), pp.273-305. University of Arizona Press, Tucson.

Tagg, M. D., 1996, Early Cultigens from Fresnal Shelter, Southeastern New Mexico. *American Antiquity* 61:311-324.

Toll, L., Walcott, M. Struever, M. Newren, and W. Gillespe, 19. Experimental Corn Plots in Chaco Canyon: The Life and Hard Times of Zea mays 1985. In *Environment and Subsistence of Chaco Canyon New Mexico*, F. J. Mathien, (ed.) National Park Service.

Toll, H. W., (ed.) 1995. *Soil, Water, Biology, and Belief in Prehistoric Traditional Southwestern Agriculture*, New Mexico Archaeological Council, Special Publication 2. Albuquerque, New Mexico, C & M Press, Denver, Colorado.

Toll, H. W., M. S. Toll, M. L. Newren, and W. B. Gillespie. 1985. Experimental Corn Plots in Chaco Canyon: The Life and Hard Times of Zea Mays L. In *Environment and Subsistence of Chaco Canyon, New Mexico*, edited by F. J. Mathien, pp. 79-133. Publication in Archaeology 18E, Chaco Canyon Studies, National Park Service, Albuquerque, New Mexico.

Turiel, R., 2013. The Ballad of the Drylander. In *Edible San Juan Mountains 12* (Spring/ Early Summer), pp.18-25.

Turney, O., 1929. Prehistoric Irrigation. *Arizona Historical Review* 2(5).

Upham, S., and R. S. MacNeish, 1993. The Evolution of Maize in the Jonada Region of New Mexico and its Implications for the Southwest. In *Preliminary Investigations of the Archaic in the Region of Las Cruces, New Mexico*, R. S. MacNeish (ed.), pp. 105-116, U.S. Army Air Defense Artillery Center, Fort Bliss, Texas.

Upham, S., R. S. MacNeish, W. C. Galinat, and C. M. Stevenson, 1987. Evidence Concerning the Origin of Maize de Ocho. *American Anthropologist* 89:410-419.

VanDerwarker, A. M., D. N. Bardolph, and C. M. Scarry, 2017. Maize and Mississippian Beginnings. In *Mississippian Beginnings*, G. D. Wilson (ed.), pp. 29–70. University Press of Florida, Gainesville.

Van West, C. R., 1994. *Modeling Prehistoric Agricultural Productivity in Southwestern Colorado: A GIS Approach*. Reports of Investigations 67. Department of Anthropology, Washington State University, Pullman and Crow Canyon Archaeological Center, Cortez, Colorado.

– 1996. Agricultural Potential and Carrying Capacity in Southwestern Colorado. A.D. 901 to 1300. In *The Prehistoric Pueblo World A.D. 1150 -1350*, Michael A. Alder (ed.), pp.214-227. University of Arizona Press, Tucson, Arizona.

Van West, C. R. and J. H. Altschul, 1994. Agricultural Productivity and Carrying Capacity in the Tonto Basin. In *The Roosevelt Rural Sites Study: Changing Land Use in the Tonto Basin, Vol. 3*. R. S. Ciolek-Torrell and J. R. Welch (eds.), pp. 361-435. Technical Series No 28. Statistical Research Inc., Tucson, Arizona.

– 1997. Environmental Variability and Agricultural Economies along the Lower Verde River, A.D. 750-1450. In *Vanishing River: Landscapes and Lives of the Lower Verde River. The Lower Verde Archaeological Project: Overview, Synthesis, and Conclusions*. S. M. Whittlesey, R. Ciolek-Torrello, and J. J. Altschul (eds.), pp. 337-392. Statistical Research, Inc., Tucson, Arizona.

Vavilov, N. I. 1931. Mexico and Central America as the Principal Centre of Origin of Cultivated Plants of the New World. *Bulletin of Applied Botany, Genetics, Plant Breeding*, pp.179-199.

Vierra, B. J., 2007. Foragers and Farmers in the Northern Rio Grande Valley, New Mexico. *Kiva* 73:117–130.

– 2008. Early Agriculture on the Southwestern Periphery of the Colorado Plateau: Diversity in Tactics. In *Archaeology Without Borders, Contact, Commerce, and Change in the U.S. Southwest and Northwestern Mexico*, L. D. Webster and M. E. McBrinn eds, pp 71–88. University Press of Colorado, Boulder, Colorado.

Vierra, B. J. (ed.), 2018. *The Archaic Southwest: Foragers in an Arid Land*. University of Utah Press, Salt Lake City, Utah.

Vierra, B. J. and A. F. Carvalho, 2017. The Mesolithic-Neolithic Transition: The View from Southwest Europe and the American Southwest. *Quaternary International*, pp.1-17.

Vierra, B. J. and R. I. Ford, 2006. Early Maize Agriculture in the Northern Rio Grande Valley, New Mexico. In *Histories of Maize: Multidisciplinary Approaches to the Prehistory, Linguistics, Biogeography, Domestication, and Evolution of Maize*, J. R. Staller, Tykot, and B. Benz (eds.), pp. 497-510, Academic Press, Elsevier, Inc., Burlington, Maine.

Vierra, B. J. and M. McBrinn, 2016. Resistant Foragers: Foraging and Maize Cultivation in the Northern Rio Grande Valley. In *Late Holocene Foragers and Farmers in the Desert West*, B. J. Roth and M. McBrinn, pp. 58-77, University of Utah Press, Salt Lake City, Utah.

Vint, J. M., 2017. *Time and Place of the Early Agricultural Period in the Tucson Basin of Southern Arizona*. Unpublished PhD dissertation, Department of Anthropology, University of Arizona, Tucson.

– 2018. The Southwest Archaic in the Tucson Basin. In *The Archaic Southwest: Foragers in an Arid Land*, B. J. Vierra (ed.), pp. 66-97. University of Utah Press, Salt Lake City, Utah.

Vint, J. M., and B. J. Mills, 2016. Niches, Networks, and the Pathways to the Forager to Farmer Transition in the U.S. Southwest/Northwest Mexico, in *The Origins of Food Production*, Los Orígenes de la Producción de Alimentos, ed. Nuria Sanz, 264–281. Organización de las Naciones Unidas para la Educación, la Ciencia y la Cultura (UNESCO), Mexico City.

Vivian, R. G., 1974. Conservation and Diversion: Water-Control Systems in the Anasazi Southwest. In *Irrigation's Impact on Society*, T. E. Downing and M. Gibson (eds.), pp. 95-112. University of Arizona Anthropological Papers 25. University of Arizona.

Vlasich, J. A., 2005. *Pueblo Indian Agriculture*. University of New Mexico Press, Albuquerque.

Wall, J. S., M. R. Young, and K. J. Carpenter, 1987. Transformation of Niacin-Containing Compounds in Corn during Grain Development: Relationships to Niacin Nutritional Availability. *Journal of Agricultural Food Chemistry* 35:752–758.

Wallace, H. D., J. M. Heidke, and W. H. Doelle, 1995. Hohokam Origins. *Kiva* 60:575–618.

Wallace, H. D., and M. W. Lindeman, 2012. Hohokam Village Formation, In *Phoenix and Tucson Basins, In Southwestern Pithouse Communities AD 200–900*, L. C. Young and S. A. Herr, pp. 34–44. University of Arizona Press, Tucson, Arizona.

Washburn, D., 2012. Shared Image Metaphors of the Corn Lifeway in Mesoamerica and the American Southwest. In *Journal of Anthropological Research* 68 (4), pp.473-502. University of Chicago Press.

Watkins, C. N., 2011. The Organization of Agricultural Labor among Smallholder Irrigation Agriculturalists: Implications for the Phoenix Basin Hohokam. *Journal of Arizona Archaeology* 1:105-119.

Watson, S. A., 2003. Description, Development, Structure, and Composition of the Corn Kernel. In *Corn: Chemistry and Technology*, 2nd (ed.), P. J. White and L. A. Johnson (eds.), pp. 69-106. American Association of Cereal Chemists, St. Paul, Minnesota.

Welch, J. R., 1991. From Horticulture to Agriculture in the Late Prehistory of the Grasshopper Region, Arizona. In *Mogollon V*, P. H. Beckett (ed.), pp.75-92, COAS Publishing, Las Cruces, New Mexico.

Wellhausen, E. J., A. Fuentes O., and A. H. Corzo, with P. C. Mangelsdorf, 1957. *Races of Maize in Central America*. Publication 511, National Academy of Sciences, National Research Council, Washington, D.C.

Wellhausen, E. J., L. M. Roberts, and E. Hernandez, 1952. *Races of Maize in Mexico: Their Origin, Characteristics, and Distribution*. Bussey Institute, Harvard University.

Werth, Lindsay, C., 2007. Characterization and Classification of Native American Maize Landraces from the Southwestern United States. Unpublished Master's Thesis, Department of Agronomy, Iowa State University, Ames, Iowa.

Whalen, N. M., 1973. Agriculture and the Cochise. *Kiva* 39:89-95.

White, C. S., D. R. Dreesen, and S. R. Loftin, 1998. Water Conservation through an Anasazi Gardening Technique. *New Mexico Journal of Science*, pp. 38:251-278.

Whittlesey, S. M. and R. Ciolek-Torrello, 1996. The Archaic-Formative Transition in the Tucson Basin. In *Early Formative Adaptations in the Southern Southwest*, B. J. Roth (ed.), pp. 49-64. Monographs in World Archaeology 5. Prehistory Press, Madison, Wisconsin.

Wicker, C., 1997. Morphological Variability of Maize from Selected Durango and Black Mesa Basketmaker II Rocshelters. In *Early Farmers in the Northern Southwest, Papers on Chronometry, Social Dynamics, and Ecology*. F. E. Smiley and M. R. Robins, pp. 121-163. Research Paper No. 7. Animas-La Plata Archaeological Project, Flagstaff, Arizona.

Wilde, J. D., and D. E. Newman, 1989. Late Archaic Corn in the Eastern Great Basin. *American Anthropologist* 91:712-720.

Wills, W. H., 1988a. *Early Prehistoric Agriculture in the American Southwest*. School of American Research Press, Santa Fe, NM.

– 1988b. Early Agriculture and Sedentism in the American Southwest: Evidence and Interpretations. *Journal of World Prehistory* 2:445-488.

– 1989. Patterns of Prehistoric Food Production in West-Central New Mexico. *Journal of Anthropological Research* 45:139-157.

– 1992. Plant Cultivation and Evolution of Risk-Prone Economies in the Prehistoric American Southwest. In *Transitions to Agriculture in Prehistory*, A. B. Gebauer and T. D. Price (eds.) pp. 153-1276. Monographs in World Archaeology No. 4. Prehistory Press, Madison, Wisconsin.

– 1993. Recent Evidence for the Introduction of Maize to the American Southwest from Mesoamerica. *Revista de Arqueología Americana* 7:83-97.

– 2005. Economic Competition and Agricultural Involution in the Precontact North American Southwest. In *A Catalyst for Ideas: Anthropological Archaeology and the Legacy of Douglas Schwartz*, V. L. Scarborough, pp. 41-67. School of American Research Press, Santa Fe, New Mexico.

Winter, J. C. 1973 The Distribution and Development of Fremont Maize Agriculture: Some Preliminary Interpretations. *American Antiquity* 38:439-452.

– 1974. *Aboriginal Agriculture in the Southwest and Great Basin*. Unpublished PhD Dissertation., University of Utah, Salt Lake City, Utah.

Woodbury, R. B., 1961. *Prehistoric Agriculture at Point of Pines, Arizona*. Memoirs of the Society for American Archaeology No. 17. Salt Lake City, Utah.

Woodson, K. M., 2010. Re-drawing the Map of Hohokam Canals in the Middle Gila River Valley. *Journal of Arizona Archaeology* 1:5-19.

Woodson, K. M., J. A. Sandor, C. Strawhacket, and W. D. Miles, 2014. Hohokam Canal Irrigation and the Formation of Irragric Anthrosols in the Middle Gila River Valley, Arizona. *Geoarchaeology*.

Woosley, A. I., 1980. Agricultural Diversity in the Prehistoric Southwest. *The Kiva* 45:317-335.

Wozniak, F. E., 1997. *Irrigation in the Rio Grande Valley, New Mexico: A Study and Annotated Bibliography of the Development of Irrigation Systems*. United States Department of Agriculture, Fort Collins, Colorado.

Xolocotzi, E. H. 1985. Man and Maize in the Greater Southwest. *Economic Botany* 39:416–430.

Zhu, T., K. C. Woodson, and M. W. Ertsen, 2018. Reconstructing Ancient Hohokam Irrigation Systems in the Middle Gila River Valley, Arizona, United States of America. *Human Ecology* 46:735–746 <https://doi.org/10.1007/s10745-018-0023-x>

Ethnographic Studies of Maize

Summary: This section includes citations for studies of maize use by Southwest Native American groups beginning in the late 1800s and continuing to the present.

Anschuetz, K. F., 1976. *The Hopi and Their Maize: An Ethnobotanical Perspective*. Unpublished Senior Honors Thesis, Department of Anthropology, University of Michigan, Ann Arbor, Michigan.

Bailey, F., 1940. Navajo Foods and Their Cooking Methods. *American Anthropologist*, 42:281.

Bandelier, A., 1892. *Final Report of Investigations among the Indians of the Southwestern United States, Carried on Mainly in the Years 1880 to 1885, Part II*. Papers of the Archaeological Institute of America 4. Cambridge.

Beaglehole, E. and P. Beaglehole, 1937. *Notes on Hopi Economic Life*. Yale University Publications in Anthropology No. 15. Yale University Press, New Haven, Connecticut.

Bernardini, W. S. B. Koyiyumptewa, G. Schachner, and L. Kuwanwisiwma, 2021. *Becoming Hopi: A History*, University of Arizona Press, Tucson, Arizona.

Beaglehole, P., 1937. Foods and Their Preparation. In *Notes on Hopi Economic Life*, Yale University Publications in Anthropology No. 15. E. Beaglehole. and P. Beaglehole (eds.), pp. 60-71, Yale University Press, New Haven, Connecticut.

Black, M. E., 1984. Maidens and Mothers: An Analysis of Hopi Corn Metaphors. *Ethnology* 23:279-288.

Bohrer, V. L., 1960. Zuni Agriculture. *El Palacio* 67:181-202.

Bradfield, M., 1971. *The Changing Pattern of Hopi Agriculture*. Occasional Papers No. 30. Royal Institute of Great Britain and Ireland.

Brenton, B. P., 2003. Green Corn Ceremonialism and Ethnonutrition: A Case Study on the Biocultural Evolution of Maize Processing. *Nutritional Anthropology* 26:22-26.

Buskirk, W. 1986. *The Western Apache: Living with the Land before 1950*. University of New Mexico Press, Albuquerque, New Mexico.

Bye, R. A. Jr., 1976. *The Ethnoecology of the Tarahumara of Chihuahua, Mexico*. Unpublished PhD Dissertation, Harvard University.

Carpenter, T. M., and M. Steggarda, 1939. The Food of the Present-Day Navajo Indian of New Mexico and Arizona. *Journal of Nutrition*, 18:297-305.

Carter, G. F., 1948. Sweet Corn among the Indians. *Geographical Review*, 38:206-221.

Carter, G. F. and E. Anderson, 1945. A Preliminary Survey of Maize in the Southwest United States. In *Annals of the Missouri Botanical Garden*, 32 pp. 297-322.

Castetter, E. W., 1938. Pueblo Agriculture. Notes in the Herbarium, University of New Mexico, Albuquerque, New Mexico.

Castetter, E. W. and W. H. Bell, 1941. *Pima and Papago Agriculture*. University of New Mexico Press, Albuquerque, New Mexico.

– 1951. *Yuma Indian Agriculture*. University of New Mexico Press, Albuquerque, New Mexico.

Clark, S. P., 1928. Lessons from Southwestern Indian Agriculture. University of Arizona College of Agriculture, Agricultural Experiment Station. Bulletin No. 125. University Station, Tucson, Arizona.

Cohen, C. 2011. People are Corn: An Ethnoecological Review of the Importance of Corn Cultivation to Hopi Culture. Unpublished paper Writing Across the Curriculum, Sacramento State University, Sacramento, California.

Collins, G.N., 1914. Pueblo Indian Maize Breeding: Varieties Specially Adapted to Arid Regions Developed by Hopis and Navajos Their Work Not Sufficiently Appreciated-Probably Much Yet to be Learned from Them. *Journal of Heredity* 5:255-267.

– 1914. A Drought-Resisting Adaptation in Seedlings of Hopi Maize. *Journal of Agricultural Research*, 1:293-302.

Curtin, L. S. M., 1968. Preparation of Sacred Corn Meal in the Rio Grande Pueblos. *Southwest Museum Leaflets* 31:3-15.

Cushing, F. 1920 (1974). *Zuni Breadstuff*. Indian Notes and Monographs 8. Museum of the American Indian, Heye Foundation, New York, New York.

Dobyns, H. F., 1989. *The Pima-Maricopa*. Chelsea House Publishing, New York.

DeJong, D. H., 2009. *Stealing the Gila: The Pima Agricultural Economy and Water Deprivation, 1848-1921*. The University of Arizona Press, Tucson.

– 2011. *Forced to Abandon Our Fields: The 1914 Clay Southworth Gila River Pima Interviews*. University of Utah Press, Salt Lake City, Utah.

Dominguez, S., and K. Kolm, 2005. Beyond Water Harvesting: Perspective on Traditional Southwestern Agricultural Technology. *American Antiquity* 70:732-765.

Elmore, F. H., 1940. *Ethnobotany of the Navajo*. Monographs of the School of American Research 8. University of New Mexico Press, Albuquerque.

Ermigiotti, P., M. D. Varien, E. Bohm, K. Bocinsky, the Hopi Cultural Preservation Office, and the Hopi Cultural Resources Advisory Team, 2022. *The Pueblo Farming Project: A Collaboration Between Hopi Farmers and the Crow Canyon Archaeological Center*. Crow Canyon Archaeological Center, Cortez, Colorado. http://crowcanyon.github.io>pfp_ebook.

Forde, C. D., 1931. Hopi Agriculture and Land Ownership. *The Journal of the Royal Anthropological Institute of Great Britain and Ireland*, 61, pp. 357-405.

Freeman, G. F., 1915. Papago Sweet Corn, A New Variety. *Arizona Agricultural Experiment Station, Bulletin* 75.

Green, J., ed., 1979. *Zuni: Selected Writings of Frank Hamilton Cushing*. Lincoln: University of Nebraska Press.

Hack, J. T., 1942. The Changing Physical Environment of the Hopi Indians of Arizona. *Papers of the Peabody Museum of American Archaeology and Ethnology* 35 (1). Harvard University, Cambridge.

Harrill, B. G., 1982. Prehistoric Agricultural Adaptation and Settlement in Long House Valley, Northeastern Arizona. PhD dissertation, Department of Anthropology, University of Arizona, Tucson, Arizona.

Hart, E., 1949. *Pima Cookery*. Pueblo Grande, Phoenix, Arizona.

Hena, L. and K. F. Anschuetz, 2000. Living on the Edge: A Coming Together of Traditional Pueblo Knowledge, Permaculture, and Archaeology. *Cultural Resource Magazine* 9:37-41.

Henle, M. 2011. Arizona Storytellers-The Hopi way of life: Watson and Sarah Honanie. *The Arizona Republic* 8 October: archive.azcentral.com.

Hill, W. W., 1938. *The Agricultural and Hunting Methods of the Navajo Indians*. Publications in Anthropology 18. Yale University Press, New Haven, Connecticut.

– 1982. *An Ethnography of Santa Clara Pueblo, New Mexico*, C. H. Lange (ed.). University of New Mexico Press, Albuquerque, New Mexico.

Kavena, J. T., 1980. *Hopi Cookery*. University of Arizona Press, Tucson, Arizona.

Keegan, M., 1977. *Pueblo and Navajo Cookery*. Earth Books/Morgan and Morgan, Dobbs Ferry, New York.

Kelly, I. T., 1964. *Southern Piate Ethnography*. Anthropological Papers no. 69. University of Utah, Salt Lake City, Utah.

Kelly, W. H., 1977. *Cocopa Ethnography*. Anthropological Papers of the University of Arizona No. 29, University of Arizona Press, Tucson, Arizona.

Kuhnlein, H. V. 1981. Dietary Mineral Ecology of the Hopi. *Journal of Ethnobiology* 1:84–94.

Kuhnlein, H. V., D. H. Calloway, and B. F. Harland, 1979. Composition of Traditional Hopi Foods, *Journal of American Dietary Association*, 75:37-41

Kuwanwisiwma, L., 2005. The Hopi Way: Dry Farming. In *Thirst for Survival*, pp. 15-17. Published by the Hopi Tribe.

Manolescu, K., 1995. *Hopi Corn Production*. Manuscript on file, Bureau of Indian Affairs, Phoenix Area Office.

Maxwell, T. and K. F. Anschuetz, 1992. The Southwestern Ethnographic Record and Prehistoric Agricultural Diversity. In *Gardens of Prehistory*, T. W. Killion (ed.), pp. 35-68. University of Alabama Press, Tuscaloosa, Alabama.

Muenchrath, D. A., J. A. Sandor, J. B. Norton, and J. A. Homburg, 2017. A Maize Experiment in a Zuni Agroecosystem. *Journal of Ethnobiology* 37:172-195.

Nequatewa, E., 1954. *Some Hopi Recipes for the Preparation of Wild Plant Foods*. Museum Of Northern Arizona, Reprint Series No.5, Hopi Indian Agriculture and Food, pp. 24-26. Originally

published 1943, Museum of Northern Arizona, Plateau 16 (1). Northern Arizona Society of Science and Art, Flagstaff.

Page, G. B., 1940. *Hopi Agricultural Notes*. U.S. Department of Agriculture Soil Conservation Service.

– 1954. *Hopi Land Patterns*. Museum Of Northern Arizona, Reprint Series No.5, Hopi Indian Agriculture and Food, pp. 8-15. Originally published 1940, Museum of Northern Arizona, Plateau 13 (2). Northern Arizona Society of Science and Art, Flagstaff.

Pawluk, R. R., 1995. Indigenous Knowledge of Soil and Agriculture at Zuni Pueblo, New Mexico. Master's thesis, Department of Agronomy, Iowa State University, Ames, Iowa. *Retrospective Theses and Dissertations*. Paper 16744. <https://lib.dr.iastate.edu/rtd/16744/>

Pennington, C. W., 1963. *The Tarahumar of Chihuahua: Their Environment and Material Culture*. University of Utah Press, Salt Lake City, Utah.

– 1969. *The Tepehuan of Chihuahua: Their Material Culture*. University of Utah Press, Salt Lake City, Utah.

– 1980. *The Pima Bajo of Central Sonora, Mexico*. University of Utah Press, Salt Lake City, Utah.

Rea, A. M. 1997. *At the Desert's Green Edge: An Ethnobotany of the Gila River Pima*. University of Arizona Press, Tucson.

Reagan, A. B. 1929. Plants Used by the White Mountain Apache Indians of Arizona. *Wisconsin Archeologist* 8(4):143–161

Robbins, W. W., J. P. Harrington, and B. Freire-Marreco, 1916. Ethnobotany of the Tewa Indians. Smithsonian Institution, Bureau of American Ethnology, Bulletin 55. Washington, D. C.

Russeli, F., 1908. *The Pima Indians*. 26th Annual Report, Bureau of American Ethnology, , pp. 32-338, Washington, D.C.

Sandor, J.A., J.B. Norton, R.R. Pawluk, J.A. Homburg, D.A. Muenchrath, C.S. White, S.E. Willilams, C.I. Havener, and P.D. Stahl, 2002. Soil Knowledge Embodied in a Native American Runoff Agroecosystem. Transactions of the 17th World Congress of Soil Science, Bangkok, Thailand.

Sokolov, R., 1983. *Fading Feast: A Compendium of Disappearing American Regional Foods*. E. P. Dutton/Farrar, Strauss, and Giroux, New York, New York.

Shipek, F. C., 1989. An Example of Intensive Plant Husbandry: The Kumeyaay of Southern California. In *Foraging and Farming: The Evolution of Plant Exploitation*, edited by David R. Harris and Gordon C. Hillman pp. 159–170. Routledge, New York.

- Soleri, D. 1989. Hopi Agriculture: A Tradition for the Future. *The Seedhead News* published by Native Seed Search, Winter Solstice, No.27
- Soleri, D. 1989. Hopi Gardens. *Arid Lands Newsletter* No.29. University of Arizona, Tucson.
- Soleri, D., and D. Cleveland, 1993. Seeds of Strength for Hopi and Zunis. *Seedlings* 10 (4,) pp.13-18.
- Southworth, C. H., 1914. Notes on Pima Agriculture, Land Use, and Village Organization. Manuscript Organized by the Bureau of Ethnic Research, University of Arizona. On file at the Arizona State Museum, University of Arizona, Tucson, Arizona.
- Stevenson, M. C., 1915. *Ethnobotany of the Zuni Indians*. Annual Report of the Bureau of American Ethnology 30. Government Printing Office, Washington, DC.
- Stewart. G. R., 1940. Conservation in Pueblo Agriculture. *Scientific Monthly*, 51:210-240.
- 1943. Soil and Water Economy in the Pueblo Southwest. *Scientific Monthly*, 56:134-144.
- Sundjordet, S. 2017. Let Them Plant their Own: Implications of Interactive Crop-Loss Processes During the Drought in Hopi Maize Fields. In *Journal of Ethnobiology* 37 (2), pp. 241-259.
- Titiev, M., 1938. The Hopi Method of Baking Sweet Corn. *Papers of the Michigan Academy of Science, Art, and Letters*, 23:87-94.
- 1954. *Hopi Indian Agriculture: I Background*. Museum Of Northern Arizona, Reprint Series No.5, Hopi Indian Agriculture and Food, pp. 16-19. Originally published 1938, Museum of Northern Arizona, Museum Notes 11 (5). Northern Arizona Society of Science and Art, Flagstaff.
- Underhill, R. M., 1939. *Social Organization of the Papago Indians*. Columbia University Press, New York.
- Vasquez, M. and L. Kuwanwisima
1994 Reciprocity and Sustainability: Terrace Restoration on Third Mesa. In *Practicing Anthropology* 16 (2), pp.14-17.
- Vecsey, C. 1983. The Emergence of the Hopi People. In *American Indian Quarterly* 7 (3), pp.69-92.
- Watson, J. B., 1954. *How the Hopi Classify Their Foods*. Museum Of Northern Arizona, Reprint Series No.5, Hopi Indian Agriculture and Food, pp. 20-23. Originally published 1943, Museum of Northern Arizona, Plateau 15 (4). Northern Arizona Society of Science and Art, Flagstaff.
- Wall, D., and V. Masayesva, 2004. People of the Corn. *American Indian Quarterly* 28 (3 & 4,), pp.435-453.

Weatherwax, P., 1954. *Indian Corn in Old America*. MacMillan Press, New York, New York.

Webb, G., 1959. *A Pima Remembers*. University of Arizona Press, Tucson, Arizona.

Whiting, A. F., 1954. *Hopi Indian Agriculture: I Background*. Museum Of Northern Arizona, Reprint Series No.5, Hopi Indian Agriculture and Food, pp. 1-3. Originally published 1936, Museum of Northern Arizona, Museum Notes 8 (10). Northern Arizona Society of Science and Art, Flagstaff.

Whiting, A. F., 1954. *Hopi Indian Agriculture: II Seed Source and Distribution*. Museum Of Northern Arizona, Reprint Series No.5, Hopi Indian Agriculture and Food, pp. 4-7. Originally published 1937, Museum of Northern Arizona, Museum Notes, Vol. 10 (5). Northern Arizona Society of Science and Art, Flagstaff.

Whiting, A. F., 1978. *Ethnobotany of the Hopi*. Reprint. AMS Press, New York. Originally published by Northern Arizona Society of Science and Art, Bulletin No.15, Museum of Northern Arizona, Flagstaff.

Wilson, J. P., 1997. *Peoples of the Middle Gila: A Documentary History of the Pimas and Maricopas, 1500s-1945*. Report No. 77, Cultural Resources Program, Gila River Indian Community, Sacaton, Arizona.

Genetic, Isotopic, and Chemical Studies of Maize

Summary: This section includes citations of research on the genetic studies of the evolution/development of maize and isotopic studies of maize.

Bennetzen, J. L., et al., 2001. Genetic Evidence and the Origin of Maize. *Latin American Antiquity*. 12:84-86.

Chisholm, B. and R. G. Matson, 1991. Basketmaker II Subsistence: Carbon Isotopes and Other Dietary Indicators from Cedar Mesa, Utah. *American Antiquity* 56:444-459.

Coltrain, J. B. J. C. Janetski, 2013. The Stable and Radio-Isotope Chemistry of Southeastern Utah Basketmaker II Burials. *Journal of Archaeological Science* 40:4711–4730.

– 2019. Reevaluation of Basketmaker II Origins. *Journal of Anthropological Archaeology* 56:101085.

Coltrain, J. B. J. C. Janetski, and S. W. Carlyle, 2007. The Stable-and Radio-Isotope Chemistry of Western Basketmaker Burials: Implications for Early Puebloan Origins. *American Antiquity* 72:301-321.

Doebley, J., 1990. Molecular Evidence and the Evolution of Maize. *Economic Botany*, 44:6-27.

– 2004. The Genetics of Maize Evolution. *Annual Review of Genetics* 38:37-59.

Doebley, J., M. M. Goldman, and C. W. Stuber, 1983. Isozyme Variation in Maize from the Southwestern United States: Taxonomic and Anthropological Implications. *Maydica* 28:97-120.

– 1987. Patterns of Isozyme Variation Between Maize and Mexican Annual Teosinte. *Economic Botany* 41:234-246.

Doebley, J., J. D. Wendel, J.S.C. Smith, C. W. Stuber, and M. M. Goodman, 1988. The Origin of Cornbelt Maize: The Isozyme Evidence. *Economic Botany* 42:120–131.

Jaenicke-Després, V., E. S. Buckler, B. D. Smith, M. T. P. Gilbert, A. Cooper, J. Doebley, and S. Pääbo, 2003. Early Allelic Selection in Maize as Revealed by Ancient DNA. *Science* 302:1206–1208.

Kennett, D. J., et al., 2020. Early Isotopic Evidence for Maize as a Staple Grain in the Americas. *Science Advances* 6(23). DOI:[10.1126/sciadv.aba3245](https://doi.org/10.1126/sciadv.aba3245).

Laborda, P. R., K. M. Olivera, A. A. F. Garcia, M. E. A. G. Z. Paterniani, and A. P. de Souza, 2005. Tropical Maize Germplasm: What Can We Say About Its Genetic Diversity in Light of Molecular Markers? *Theoretical and Applied Genetics*, 111:1288-1299.

Li, Xiaolong, Yingqiao Jian, Chuanxiao Xie, Jun Wu, Yunbi Xu, and Cheng Zou. 2017. Fast Diffusion of Domesticated Maize to Temperate Zones. *Scientific Reports* 7:2077.
<https://doi.org/10.1038/s41598-017-02125-0>

Matson, R. G., and G. Chisolm, 1991. Basketmaker II Subsistence: Carbon Isotopes and Other Dietary Indicators from Cedar Mesa, Utah. *American Antiquity* 56:444-459.

Matsuoka, Y., S. E. Mitchell, S. Kresovich, M. M. Goodman, and J. Doebley, 2002. Microsatellites in Zea: Variability, Patterns of Mutations, and use for Evolutionary Studies. *Theoretical and Applied Genetics* 104:436-450.

Matsuoka, Y., Y. Vigouroux, M. M. Goodman, J. Sanchez, E. Buckler, and J. Doebley, 2002. A Single Domestication for Maize Shown by Multilocus Microsatellite Genotyping. *PNAS* 99:6080-6084.

Swarts, K., et al., 2017. Genomic estimation of complex traits reveals ancient maize adaptation to temperate North America. *Science*, 357:512–515.

Troyer, A. F., 1997. The Location of Genes Governing Long First Internode of Corn. *Genetics* 145:1149-1154.

Varien, M. D., S. Powell, and L. J. Kuwanwisiwma, 2018. The Genetic Diversity of Hopi Corn. In *Footprints of Hopi History: Hopihiniwtiput Kukveni'at*, L. J. Kuwanwisiwma, T. J. Ferguson, and C. Colwell (eds.), pp. 157-177. University of Arizona Press, Tucson, Arizona.

van Etten, J., and R. J. Hijmans, 2010. Geospatial Modelling Approach Integrating Archaeobotany and Genetics to Trace the Origin and Dispersal of Domesticated Plants *PLoS ONE* 5(8):e12060. <https://doi.org/10.1371/journal.pone.0012060>

Zeder, M. (ed.), 2006. *Documenting Domestication: New Genetic and Archaeological Paradigms*. University of California Press, Oakland, California.

Experimental Maize Gardens: The Mesa Verde Region and Beyond

Summary: This section provides citations on experimental maize gardens focused on the Mesa Verde region but including a few other regions. The studies examine how environmental setting and annual climate change affects maize yields and other topics.

Adams, K. R. and B. A. Bellorado, 2004. The ALP Experimental Farming Project 2003: Preliminary Report. *Animas-La Plata Archaeological Project 2003 Annual Report*, pp. 34-1 to 34-16. Prepared by SWCA Environmental Consultants, Durango, Colorado.

Adams, K. R. and M. Hovezak, 1990. Crow Canyon Experimental Gardens, Unpublished notes on file, Crow Canyon Archaeological Center, Cortez, Colorado.

Adams, K. R., et al., 2005. MAIS (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. Arizona State University, Tempe, Arizona.

Bellorado, B. A., 2007. Breaking Down the Models: Reconstructing prehistoric Subsistence Agriculture in the Durango District of Southwestern Colorado., Unpublished Master's Thesis, Northern Arizona University, Flagstaff, Arizona.

– 2009 A Reconstruction of Prehistoric Subsistence Agriculture in Ridges Basin. In *Animas La Plata Project: Special Studies*, edited by James M. Potter, pp. 215–234. SWCA Anthropological Research Paper No. 10, Vol. XIII. SWCA Environmental Consultants, Phoenix, Arizona.

Boomgarden, S. A., D. Metcalfe, C. Springer, E. Simons, and E. J. Baldwin, 2017. *Four Years of Maize Farming Experiments in a Semi-Arid Environment*. Electronic document. <https://nhmu.utah.edu/sites/default/files/attachments/Four%20Years%20of%20Maize%20Farming%20Experiments.pdf>

Franke, P. R., and D. Watson, 1936. An Experimental Corn Field in Mesa Verde National Park (19191936). *The University of New Mexico Bulletin*.

Goette, S., M. Williams, S. Johannessen, and C. A. Hastorf, 1994. Towards Reconstructing Ancient Maize: Experiments in Processing and Charring. *Journal of Ethnobiology* 14:1–21.

Hammett, J. E. and A. B. Hornback, 1977. The 1977 Garden Experiments at Hovenweep. Unpublished manuscript on file Mesa Verde National Park, Mesa Verde, Colorado.

Hammett, J. E., and A. B. Hornback, 1984. The 1977 Garden Experiments at Hovenweep. In *Hovenweep 1977, Archaeological Report No. 4*, J. Hammett and N. Olsen, pp. 35-52. Anthropology Department, San Jose State University, San Jose.

Honeycutt, L., 1995. Dryland Farming in Southwest Colorado: Past and Present. In *Soil, Water, Biology and Belief in Prehistoric and Traditional Southwestern Agriculture*, W. Toll, ed, New Mexico Archaeological Council, Special Publication 2. Albuquerque, New Mexico.

Johnson, C. 1996. Experimental Horticulture of Dent Corn in Northeastern Utah After Year One. *Utah Rock Art Association Symposium* 16(7):1-9.

<http://www.utahrockart2.org/pubs/proceedings/papers/16-07 - Johnson Experimental Horticulture of Dent Corn in Northeastrn Utah after Year One.pdf>

Litzinger, W. J., 1976. The Experimental Garden Project, 1975. In *Hovenweep 1975, Archaeological Report No. 2*, edited by Joseph Winter, pp. 177-190. Anthropology Department, San Jose State University, San Jose.

Mills, P. R., 1986. Crow Canyon Experimental Gardens Report. Mills, 1987, Manuscript on file, Crow Canyon Archaeological Center, Cortez, Colorado.

Mt.Pleasant, J., and R. F. Burt, 2010. Estimating Productivity of Traditional Iroquoian Cropping Systems from Field Experiments and Historical Literature. *Journal of Ethnobiology* 30:52–79. doi:10.2993/0278-0771-30.1.52.

Muenchrath, D. A., J. A. Sandor, J. B. Norton, and J. A. Homburg, 2017. A Maize Experiment in a Traditional Zuni Agroecosystem. *Journal of Ethnobiology* 37:172–95. doi:10.2993/0278- 0771-37.2.172.

Shuster, R. A., 1981. *Factors Affecting Productivity in Subsistence Agriculture*. Unpublished Master's Thesis, Department of Environmental, Population, and Organismic Biology, University of Colorado, Boulder, Boulder, Colorado.

– 1983. Preliminary Report, Demonstration and Experimental Garden Studies 1979 and 1980. *Dolores Archaeological Program Technical Reports DAP–062*. Bureau of Reclamation, Upper Colorado Region Contract No. 8-07-40-S0562.

Toll, H. W., M. S. Toll, M. L. Newren, and W. B. Gillespie, 1985. Experimental Corn Plots in Chaco Canyon: The Life and Hard Times of *Zea mays* L. In *Environment and Subsistence in Chaco*

Canyon, New Mexico, F. J. Mathien, pp. 79-133. United States Department of the Interior, National Park Service, Albuquerque, New Mexico.