**Peer-Reviewed Journal Articles and Patents**

\*1. **Kiniry, J.R.** and Keener, M.E. An enzyme kinetic equation to estimate maize development rates. Agron. J. 74:115-119. 1982.

\*2. **Kiniry, J.R.**, Ritchie, J.T., Musser, R.L., Flint, E.P., and Iwig, W.C. The photoperiod sensitive interval in maize. Agron. J. 75:687-690. 1983.

\*3. **Kiniry, J.R.**, Ritchie, J.T., and Musser, R.L. Dynamic nature of the photoperiod response in maize. Agron. J. 75:700-703. 1983.

\*4. **Kiniry, J.R.** and Ritchie, J.T. Shade-sensitive interval of kernel number of maize. Agron. J. 77(5):711-715. 1985.

\*5. **Kiniry, J.R.** Kernel weight increase in response to decreased kernel number in sorghum. Agron. J. 80:221-226. 1988.

\*6. **Kiniry, J.R.** and Musser, R.L. Response of kernel weight of sorghum to environment early and late in grain filling. Agron. J. 80:606-610. 1988.

\*7. K**iniry, J.R.**, Jones, C.A., O’Toole, J.C., Blanchet, R., Cabelguenne, M., and Spanel, D.A. Radiation-use efficiency in biomass accumulation prior to grain-filling for five grain-crop species. Field Crops Res. 20:51-64. 1989.

8. Grant, R.F., Jackson, B.A., **Kiniry, J.R.**, and Arkin, G.F. Water deficit timing effects on yield components in maize. Agron. J. 81:61-65. 1989.

9. Williams, J.R., Jones, C.A., **Kiniry, J.R.**, and Spanel, D.A. The EPIC crop growth model. Trans. ASAE 32:497-511. 1989.

\*10. **Kiniry, J.R.**, Wood, C.A., Spanel, D.A., and Bockholt, A J. Seed weight response to decreased seed number in maize. Agron. J. 82:98-102. 1990.

11. Stockle, C.A. and **Kiniry, J.R.** Variability in crop radiation use efficiency associated with vapor pressure deficit. Field Crops Res. 25:171-181. 1990.

12. Manrique, LA., **Kiniry, J.R.**, Hodges, T., and Axness, D.S. Dry matter production and radiation interception of potato. Crop. Sci. 31:1044-1049. 1991.

13. Bonhomme, R., Derieux, M., **Kiniry, J.R.**, Edmeades, G.O., and Ozier-Lafontaine, H. Maize leaf number sensitivity in relation to photoperiod in multilocation field trials. Agron. J. 83:153-157. 1991.

\*14. **Kiniry, J.R.**, Tischler, C.R., Rosenthal, W.D., and Gerik, T.J. Nonstructural carbohydrate utilization by sorghum and maize shaded during grain growth. Crop Sci. 32:131-137. 1992.

15. Bryant, K.J., Benson, V.W., **Kiniry, J.R.**, Williams, J.R., and Lacewell, R.D. Simulating crop yield response to irrigation timings: Validation of the EPIC model. J. Production Agric. 5:237-242. 1992.

\*16. **Kiniry, J.R.**, Williams, J.R., Gassman, P.W., and Debaeke, P. A general, process-oriented model for two competing plant species. Trans. ASAE 35(3):801-810. 1992.

\*17. **Kiniry, J.R.**, Blanchet, R., Williams, J.R., Texier, V., Jones, C.A., and Cabelguenne, M. Sunflower simulation using the EPIC and ALMANAC models. Field Crops Res. 30:403-423. 1992.

\*18. **Kiniry, J.R.** Letter to Editor. Agron. J. 85(5):916. 1992.

\*19. **Kiniry, J.R.** Nonstructural carbohydrate utilization by wheat shaded during grain growth. Agron. J. 85:844-849. 1993.

\*20. **Kiniry, J.R.** A note of caution concerning the paper by Demetriades-Shah et al. Letter to the Editor. Agric. For. Meteorol. 68:229-230. 1994.

\*21. **Kiniry, J.R.** Radiation-use efficiency and grain yield of maize competing with johnsongrass. Agron. J. 86:554-557. 1994.

22. Flenet, F. and **Kiniry, J.R.** Efficiency of biomass accumulation by sunflower as affected by glucose requirement of biosynthesis and leaf nitrogen content. Field Crops Res. 44:119-127. 1995.

\*23. **Kiniry, J.R.** and Knievel, D.P. Response of maize seed number to solar radiation intercepted soon after anthesis. Agron. J. 87:228-234. 1995.

\*24. **Kiniry, J.R.**, Major, D.J., Izaurralde, R.C., Williams, J.R., Gassman, P.W., Morrison, M., Bergentine, R., and Zentner, R.P. EPIC model parameters for cereal, oilseed, and forage crops in the northern Great Plains region. Can. J. Plant Sci. 75:679-688. 1995.

25. Flenet, F., **Kiniry, J.R.**, Board, J.E., Westgate, M.E., and Reicosky, D.C. Row spacing effects on light extinction coefficients of corn, sorghum, soybean, and sunflower. Agron. J. 88:185-190. 1996.

26. Host, G.E., Isebrands, J.G., Theseira, G.W., **Kiniry, J.R.**, and Graham, R.L. Temporal and spatial scaling from individual trees to plantations: a modeling strategy. Biomass Bioenergy 11(2/3):233-243. 1996.

\*27. **Kiniry, J.R.**, Sanderson, M.A., Williams, J.R., Tischler, C.R., Hussey, M.A., Ocumpaugh, WR., Read, J.C., Van Esbroeck, G., and Reed, R.L. Simulating Alamo switchgrass with the ALMANAC model. Agron. J. 88:602-606. 1996.

28. Debaeke, P., Caussanel, J.P., **Kiniry, J.R.**, Kafiz, B., and Mondragon, G. Modelling crop: Weed interactions in wheat with ALMANAC. Weed Res. 37:325-341. 1997.

29. Dugas, W.A., Reicosky, D.C., and **Kiniry, J.R.** Chamber and micrometeorological measurements of CO2 and H2O fluxes for three C4 grasses. Agric. For. Meteorol. 83:113-133. 1997.

\*30. **Kiniry, J.R.**, Williams, J.R., Vanderlip, R.L., Atwood, J.D., Reicosky, D.C., Mulliken, J., Cox, W.J., Mascagni, H.J., Hollinger, S.E., and Wiebold, W.J. Evaluation of two maize models for nine U.S. locations. Agron. J. 89(3):421-426. 1997.

31. Cavero, J., Plant, R.E., Shennan, C., Williams, J.R., **Kiniry, J.R.**, and Benson, V.W. Application of EPIC model to nitrogen cycling in irrigated processing tomatoes under different management systems. Agr. Syst. 56:391-414. 1998.

\*32. **Kiniry, J.R.**, Landivar, J.A., Witt, M., Gerik, T.J., Cavero, J., and Wade, L.J. Radiation-use efficiency response to vapor pressure deficit for maize and sorghum. Field Crops Res. 56:265-270. 1998.

\*33. **Kiniry, J.R.** and Bockholt, A.J. Maize and sorghum simulation in diverse Texas environments. Agron. J. 90:682-687. 1998.

\*34. **Kiniry, J.R.** Biomass accumulation and radiation use efficiency of honey mesquite and eastern red cedar. Biomass Bioenergy 15(6):467-473. 1998.

35. Birch, C.J., Vos, J., **Kiniry, J.R.**, Bos, H.J., and Elings, A. Phyllochron responds to acclimation to temperature and irradiance in maize. Field Crops Res. 59:187-200. 1998.

36. Cavero, J., Plant, R.E., Shennan, C., Friedman, D.B., Williams, J.R., **Kiniry, J.R.**, and Benson, V.W. Modeling nitrogen cycling in tomato-safflower and tomato-wheat rotations. Agr. Syst. 60:123-135. 1999.

\*37. **Kiniry, J.R.**, Tischler, C.R., and Van Esbroech, G.A. Radiation use efficiency and leaf CO2 exchange for diverse C4 grasses. Biomass Bioenergy 17:95-112. 1999.

\*38. **Kiniry, J.R.** Response to questions raised by Sinclair and Muchow. Field Crops Res. 62:245-247. 1999.

39. Colomb, B., **Kiniry, J.R.**, and Debaeke, P. Effect of soil phosphorus on leaf development and senescence dynamics of field-grown maize. Agron. J. 92:428-435. 2000.

40. Xie, Yun, **Kiniry, J.R.**, Nedbalek, V., and Rosenthal, W.D. Maize and sorghum simulations with CERES-Maize, SORKAM, and ALMANAC under water-limiting conditions. Agron. J. 93:1148-1155. 2001.

\*41. **Kiniry, J.R.**, McCauley, G., Yun, Xie, and Arnold, J.G. Rice parameters describing crop performance of four U.S. cultivars. Agron. J. 93:1354-1361. 2001.

**\***42**. Kiniry, J.R.**, Xie, Yun, and Gerik, T.J. Similarity of maize seed number responses for a diverse set of sites. Agronomie 22:265-272. 2002.

\*43. **Kiniry, J.R.**, Sanchez, H., Greenwade, J., Seidensticker, E., Bell, J.R., Pringle, F., Peacock, Jr., G., and Rives, J. Simulating grass productivity on diverse range sites in Texas. J. Soil Water Conserv. 57:144-150. 2002.

44. Xie, Yun and **Kiniry, J.R.** A review on the development of crop modeling and its application. ACTA Agronomica Sinica 28(2):190-195. 2002.

45. Xie, Yun, **Kiniry, J.R.**, and Williams, J.R. The ALMANAC model’s sensitivity to input variables. Agr. Syst. 78:1-6. 2003.

46. Chen, Pei-Yu, Srinivasan, R., Fedosejevs, G., and **Kiniry, J.R.** Evaluating different NDVI composite techniques using NOAA-14 AVHRR data. Int. J. Remote Sens. 24(17):3404-3412. 2003.

\*47. **Kiniry, J.R.**, Bean, B., Xie, Yun, and Chen, Pei-Yu. Maize yield potential: Critical processes and simulation modeling in a high-yielding environment. Agri. Syst. 82:45-56. 2004.

48. Baez-Gonzalez, A.D., **Kiniry, J.R.**, Maas, S.J., Richardson, C.W., Macias, J., Mendoza, J.L., Salinas-Garcia, J., and Manjarrez, J. Large-scale maize yield forecasting using LAI-based yield model. Agron. J. 97:418-425. 2004.

\*49. **Kiniry, J.R.**, Simpson, C.E., Schubert, A.M., and Reed, J.D. Peanut leaf area index, light interception, radiation use efficiency, and harvest index at three sites in Texas. Field Crops Res. 91:297-306. 2005.

**\***50**. Kiniry, J.R.**, Cassida, K.A., Hussey, M.A., Muir, J.P., Ocumpaugh, W.R., Read, J.C., Reed, R.L, Sanderson, M.A., Venuto, B.C., and Williams, J.R. Switchgrass simulation by the ALMANAC model at diverse sites in the southern U.S. Biomass Bioenergy. 29:419-425. 2005.

**\***51**. Kiniry, J.R.** and Echarte, L. Comments on “Yield response of corn to crowding stress” by Hashemi et al. (Agron. J. 97: 839-846). Agron. J. 97:1472. 2005.

52. McLaughlin, S.B., **Kiniry, J.R.**, Taliaferro, C.M., and De LaTorre Ugarte, D. Projecting yield and utilization potential of switchgrass as an energy crop. Adv. Agron. 90:267-297. 2006.

\*53. **Kiniry, J.R.**, Burson, B.L., Evers, G.W., Williams, J.R., Sanchez, H. Wade, C., Featherston, J.W., and Greenwade, J. Coastal bermudagrass, bahiagrass, and native range simulation at diverse sites in Texas. Agron. J. 99:450-461. 2007.

54. Schilling, K.E. and **Kiniry, J.R.** Estimation of evapotranspiration by reed canarygrass using field observations and model simulations. J. Hydrol. 337:356-363. 2007.

55. Hudgeons, J.L., Knutson, A.E., Heinz, K.M., DeLoach, C.J., Dudley, T.L., Pattison, R.R., and **Kiniry, J.R.** Defoliation by introduced *Diorhabda* *elongata* leaf beetles (Coleoptera: Chrysomelidae) reduces carbohydrate reserves and regrowth of *Tamarix* (Tamaricaceae). Biol. Control 43:213-221. 2007.

56. Drouet, J.L. and **Kiniry, J.R.** Does spatial arrangement of 3D plants affect light transmission and extinction coefficient within maize crops? Field Crops Res. 107:62-69. 2008.

\*57. **Kiniry, J.R.** and Evers, G.W. Radiation use efficiency of arrowleaf, crimson, rose, and subterranean clovers. Agron. J. 100:1155-1160. 2008.

\*58. **Kiniry, J.R.**, Schmer, M.R., Vogel, K.P., and Mitchell, R.B. Switchgrass biomass simulation at diverse sites in the Northern Great Plains of the U.S. BioEnergy Res. 1(3-4):259-264. 2008.

\*59. **Kiniry, J.R.**, MacDonald, J.D., Watson, B., Kemanian, A., Putz, G., and Prepas, E.E. Plant growth simulation for landscape scale hydrologic modeling. InSpecial Issue: Advances in Ecohydrological Modelling with SWAT. Hydrolog. Sci. J. 53(5):1030-1042. 2008.

60. Williams, J.R., Arnold, J.G., and **Kiniry, J.R.**  History of Model Development at Temple, Texas. InSpecial Issue: Advances in Ecohydrological Modelling in SWAT. Hydrolog. Sci. J. 53(5):948-960. 2008.

61. MacDonald, J.D., **Kiniry, J.R.**, Putz, G., and Prepas, E.E. A multi-species, process based vegetation simulation model to estimate important variables in evapotranspiration after forest disturbance. J. Environ. Eng. Sci. 7:S127-S143. 2008.

62. Weltz, M., Jolley, L., Nearing, M., Stone, J., Goodrich, D., Speath, K., **Kiniry, J.,** Arnold, J., Bubenheim, D., Hernandez, M., and Wei, H. Assessing the benefits of grazing land conservation practices. J. Soil Water Conserv. 63(6):214A-217A. 2008.

63. Haney, R.L., **Kiniry, J.R.**, and Johnson, M.V. Soil microbial activity under different grass species: Underground impacts of biofuel cropping. Agr. Ecosyst. Environ. 139(4):754-758. 2010.

64. Johnson, M.V., **Kiniry, J.R.**, and Burson, B.L. Ceptometer deployment method affects measurement of fraction of intercepted photosynthetically active radiation. Agron. J. 102(4):1132-1137. 2010.

65. Johnson, M.V., **Kiniry, J.R.**, Sanchez, H., Polley, H.W., and Fay, P.A. Comparing biomass yields of low-input high-diversity communities with managed monocultures across the central United States. BioEnergy Res. 3:353-361. 2010.

66. Medina-Garcia, G., Baez-Gonzalez, A.D., Lopez-Hernandez, J., Ruiz-Corral, J.A., Tinoco-Alfaro, C.A., and **Kiniry, J.R.** Large-area dry bean yield prediction modeling in Mexico. Revista Mexicana de Ciencias Agricolas 1(3):413-426. 2010.

67. Wang, X., Williams, J.R., Gassman, P.W., Baffaut, C., Izaurralde, C., Jeong, J., and **Kiniry, J.R.** EPIC and APEX: Model use, calibration, and validation. Trans. ASABE 55(4):1447-1462. 2012.

68. Johnson, M.V., Finzel, J.A., Spanel, D.A., Weltz, M.A., Sanchez, H., and **Kiniry, J.R.** The rancher’s ALMANAC. Rangelands 33(2):10-16. 2011.

\*69. **Kiniry, J.R.**, Johnson, M.V., Mitchell, R., Vogel, K.P., Kaiser, J., Bruckerhoff, S.B., and Cordsiemon, R.L. Switchgrass leaf area index and light extinction coefficients. Agron. J. 103(1):119-122. 2011.

70. Sanderson, M.A., Goslee, S.C., Franzluebbers, A.J., **Kiniry, J.R.**, Owens, L.B., Spaeth, K., Steiner, J.L., and Veith, T.L. Pastureland Conservation Effects Assessment Project: Status and expected outcomes. J. Soil Water Conserv. 66(5):148A-153A. 2011.

71. Polley, H.W., Phillips, B.L., Frank, A.B., Bradford, J.A., Sims, P.L., Morgan, J.A., and **Kiniry, J.R.** Variability in light-use efficiency for gross primary productivity on Great Plains grasslands. Ecosystems 14:15-27. 2011.

72. Finzel, J.A., Seyfried, M.S., Weltz, M.A., **Kiniry, J.R.**, Johnson, M.V., and Launchbaugh, K.L. Indirect measurement of leaf area index in sagebrush-steppe rangelands. Rangeland Ecol. Manag. 65:208-212. 2012.

\*73. **Kiniry, J.R.**, Johnson, M.V., Bruckerhoff, S.B., Kaiser, J.U., Cordsiemon, R.L., and Harmel, R.D. Clash of the titans: Comparing productivity via radiation use efficiency for two grass giants of the biofuel field. BioEnergy Res. 5(1):41-48. 2012.

74. Woli, P., Paz, J.O., Lang, D.J., Baldwin, B.S., and **Kiniry, J.R.** Soil and variety effects on the energy and carbon balances of switchgrass-derived ethanol. J. Sustain. Bioenerg. Syst. (JSBS) 2(4):65-74. 2012.

75. Meki, M.N., Atwood, J.D., Norfleet, L.M., Williams, J.R., Gerik, T.J., and **Kiniry,** **J.R.** Corn residue removal effects on soybean yield and nitrogen dynamics in the Upper Mississippi River Basin. J. Sustain. Agr. 37(3):379-400. 2013.

76. Aspinwall, M.J., Lowry, D.B., Taylor, S.H., Juenger, T.E., Hawkes, C.V., Johnson, M.V., **Kiniry, J.R.**, and Fay, P.A. Genotypic variation in traits linked to climate and aboveground productivity in a widespread C4 grass: Evidence for a functional trait syndrome. New Phytol. 199:966-980. 2013.

77. Behrman, K.D., **Kiniry, J.R.**, Winchell, M., Juenger, T.E., and Keitt, T.H. Spatial forecasting of switchgrass productivity under current and future climate change scenarios. Ecol. Appl. 23(1):73-85. 2013.

\*78. **Kiniry, J.R.**, Johnson, M.V. Venuto, B.C., and Burson, B.L. Novel application of ALMANAC: Modelling a functional group, exotic warm-season perennial grasses. Am. J. Exp. Agric. 3(3):631-650. 2013.

\*79. **Kiniry, J.R.**, Anderson, L.C., Johnson, M.V., Behrman, K.D., Brakie, M., Burner, D.M., Cordsiemon, R.L., Fay, P.A., Fritschi, F.B., Houx III, J.H., Hawkes, C., Juenger, T., Kaiser, J., Keitt, T., Lloyd-Reilley, J., Maher, S., Raper, R., Scott, A., Shadow, A., West, C., Wu, Y., and Zibilske, L.M. Perennial biomass grasses and the Mason-Dixon Line: Comparative productivity across latitudes in the southern Great Plains. BioEnergy Res. 6:276-291. 2013.

80. Meki, M.N., Snider, J.L., **Kiniry, J.R.**, Raper, R.L., and Rocateli, A.C. Energy sorghum biomass harvest thresholds and tillage effects on soil organic carbon and bulk density. Ind. Crops Prod. 43:172-182. 2013.

81. Lowry, D.B., Behrman, K.D., Grabowski, P., Morris, G.P., **Kiniry, J.R.**, and Juenger, T.E. Adaptations between ecotypes and along environmental gradients in *Panicum virgatum*. Am. Nat. 183:682-692. 2014.

\*82. **Kiniry, J.R.,** Briggs, J. Englert, J., Weltz, M., Jensen, K., Tilley, D., Stannard, M., Young-Matthews, A., Blanke, T., Smither-Kopperl, M., Winslow, S., Goodson, D. Plant parameters for plant functional groups of western rangelands to enable process-based simulation modeling. Am. J. Exper. Agri. 4(7):746-766. 2014.

83. Behrman, K.D., Keitt, T.H., and **Kiniry, J.R.** Modeling differential growth in switchgrass cultivars across the Central and Southern Great Plains. BioEnergy Res. 7(4):1165-1173. 2014.

84. Starks, P.J., Venuto, B.C., Dugas, W.A., and **Kiniry, J.R.** Measurements of canopy interception and transpiration of openly-grown eastern redcedar in central Oklahoma. Environ. Nat. Resour. Res. 4(3): DOI: 10.5539/enrr.v4n3p103. 2014.

85. Di Luzio, M., Norfleet, L., Arnold, J.G., Williams, J.R., and **Kiniry, J.R.** A soil parameters geodatabase for the modeling assessment of agricultural conservation practices effects in the United States. IJGER. 1(2):Article 6. Available: <http://dc.uwm.edu/ijger/vol1/iss2/6>. 2014.

86. Meki, M.N., **Kiniry, J.R.**, Youkhana, A.H., Crow, S.E., Ogoshi, R.M., and Nakahata, M.H., Tirado-Corbalá, R., Anderson, R.G., Osorio, J., and Jeong, J. Two-year growth cycle sugarcane crop parameter attributes and their application in modeling. Agron. J. 107(4):1310-1320. 2015.

87. Baez-Gonzalez, A.D., **Kiniry, J.R.**, Ramirez, J., Garcia, G.M., Gonzalez, J.L., and Ceja, E.S. Parameterization of ALMANAC crop simulation model for non-irrigated dry bean in semi-arid temperate areas in Mexico. Interciencia. 40(3):185-189. 2015.

88. Gesch, R.W., Isbell, T., Oblath, E.A., Allen, B.L., Archer, D.W., Brown, J., Hatfield, J.L., Jabro, J.D., **Kiniry, J.R.**, Long, D.S., and Vigil, M.F. Comparison of several Brassica species in the north central U.S. for potential jet fuel feedstock. Ind. Crops Prod. 75(B):2-7. 2015.

89. Jain, S., Ale, S., Munster, C.L., Ansley, R.J., and **Kiniry, J.R.** Simulating the hydrologic impact of Arundo donax invasion on the headwaters of the Nueces River in Texas. J. Hydrol. 2:134-147. 2015.

90. Guo, T., Engel, B.A., Shao, G., Arnold, J.G., Srinivasan, R., and **Kiniry, J.R.** Functional approach to simulating short-rotation woody crops in process-based models. BioEnergy Res. 8:1598-1613. 2015.

91. Mitchell, R., Schmer, M.R., Anderson, W.F., Jin, V.L., Balkcom, K.S., **Kiniry, J.R.**, Coffin, A.W., and White Jr, P.M. Dedicated energy crops and crop residues for bioenergy feedstocks in the Central and Eastern U.S.A. BioEnergy Res. 9:384-398. 2016.

92. Oblath, E.A., Isbell, T.A., Berhow, M.A., Allen, B., Archer, D., Brown, J., Gesch, R.W., Hatfield, J.L., Jabro, J.D., **Kiniry, J.R.**, and Long, D.S. Development of near-infrared spectroscopy calibrations to measure quality characteristics in intact Brassicaceae germplasm. Ind. Crops Prod. 89:52-58. 2016.

93. Kim, S., Williams, A.S., **Kiniry, J.R.**, and Hawkes, C.V. Simulating diverse native C4 perennial grasses with varying rainfall. J. Arid Environ. 134:97-103. 2016.

94. Pawlowski, M.N., Crow, S.E., Meki, M.N., **Kiniry, J.R.**, Taylor, A.D., Ogoshi, R., Youkhana, A., and Nakahata, M. Field-based estimates of global warming potential in bioenergy systems of Hawaii: Crop choice and deficit irrigation. PLoS One. 12(1):e0168510. DOI:01.1371/journal.pone/0168510. 2017.

95. Burner, D.M., Ashworth, A.J., Pote, D.H., **Kiniry, J.R.**, Belesky, D.P., Houx, J.H., Carver, P., and Fritschi, F.B. Dual-use bioenergy-livestock feed potential of Giant Miscanthus, Giant Reed, and Miscane. Agric. Sci. 8:97-112. 2017.

96. Kim, S., **Kiniry, J.R.**, Williams, A.S., Meki, M.N., Gaston, L.A., Brakie, M., Shadow, A., Fritschi, F.B., and Wu, Y. Adaptation of C4 bioenergy crop species to various environments within the Southern Great Plains of U.S. Sustainability. 9:89. DOI:10.3390/su9010089. 2017.

\*97. **Kiniry, J.R.**, Muscha, J.M., Petersen, M.K., Kilian, R.W., and Metz, L.J. Short duration, perennial grasses in low rainfall sites in Montana: Deriving growth parameters and simulating with a process-based model. Am. J. Exp. Agric. 15(6):1-13. 2017.

98. Meki, M.N., Ogoshi, R.M., **Kiniry, J.R.**, and Crow, S.E. Performance evaluation of biomass sorghum in Hawaii and Texas. Ind. Crops Prod. 103:257-266. 2017.

99. Hunter, K.M., Archer, D.W., Gesch, R.W., Vigil, M.F., Hatfield, J.L., Allen, B.L., Jabro, J.D., Kim, S., Meki, M.N., and **Kiniry, J.R.** Degree days to 50% flowering for 12 cultivars of spring canola-like mustard. J. Agric. Ecol. Res. Intern. 11(4):1-8. 2017.

100. Youkhana, A.H., Ogoshi, R.M., **Kiniry, J.R.**, Meki, N.M., Nakahata, M.H., and Crow, S.E. Allometric models for predicting aboveground biomass and carbon stock of tropical perennial C4 grasses in Hawaii. Front. Plant Sci. 8:650. DOI: 10.3389/fpls.2017.00650. 2017.

101. Kim, S., **Kiniry, J.**, and Loomis, L. Creosote Bush, an arid zone survivor in southwestern U.S.: 1. Identification of morphological and environmental factors that affect its growth and development. J. Agric. Ecol. Res. Intern. 11(4):1-14. 2017.

102. Baez-Gonzalez, A., **Kiniry, J.**, Meki, M., Williams, J., Alvarez-Cilva, M., Ramos-Gonzalez, J., Magallanes-Estala, A., and Zapata-Buenfil, G. Crop parameters for modeling sugarcane under rainfed conditions in Mexico. Sustainability. 9(8). 2017.

103. Crow, S., Pawlowski, M., Meki, M., **Kiniry, J.R.**, Taylor, A., Ogoshi, R., Youkhana, A., and Nakahata, M. How can we make biofuels more climate friendly? Science Journal for Kids. 2017. Available: <http://www.sciencejournalforkids.org/uploads/5/4/2/8/54289603/hawaii-article.pdf>.

104. Di Luzio, M., White, M.J., Arnold, J.G., Williams, J.R., and **Kiniry, J.R.** A large scale GIS geodatabase of soil parameters supporting the modeling of conservation practice alternatives in the United States. J. Geog. Info. Sys. 9:267-278. 2017.

105. Di Luzio, M., White, M.J., Arnold, J.G., Williams, J.R., and **Kiniry, J.R.** Advancement of a soil parameters geodatabase for the modeling assessment of conservation practice outcomes in the United States. Intern. J.f Geo. Environ. Res. 4(1)Article 2:1-4. 2017. <http://dc.uwm.edu/ijger/vol4/iss1/2>.

106. Guo, T., Cibin, R., Chaubey, I., Gitau, M., Arnold, J.G., Srinivasan, R., **Kiniry, J.R.**, and Engel, B.A. Evaluation of bioenergy crop growth and the impacts of bioenergy crops on streamflow, tile drain flow and nutrient losses in an extensively tile-drained watershed using SWAT. Sci. Total Environ. 613-614:724-35. 2018.

107. Williams, A.S., **Kiniry, J.R.**, Mushet, D., Smith, L.M., McMurry, S., Attebury, K., Lang, M., McCarty, G.W., Shaffer, J.A., Effland, W.R., and Johnson, M.-V.V. Model parameters for representative wetland plant functional groups. Ecosphere. 8(10). 2017.

108. Hawkes, C.V., and **Kiniry, J.R.** Legacies in switchgrass resistance to and recovery from drought suggest that good years can sustain plants through bad years. BioEnergy Res. 11(1):86-94. 2017.

\*109. **Kiniry, J.R.**, Kim, S., Williams, A.S., Lock, T.R., and Kallenbach, R.L. Simulating bimodal tall fescue growth with a degree-day-based process-oriented plant model. Grass Forage Sci. 73(2):432-9. 2018.

110. Baez-Gonzalez, A.D., **Kiniry, J.R.**, Meki, M.N., Williams, J.R., Alvarez Cilva, M., Ramos Gonzalez, J.L., and Magallanes Estala, A. Potential impact of future climate change on sugarcane under dryland conditions in Mexico. J. Agron. Crop Sci. 204(5):515-28. 2018.

111. Kim, S., Kim, S., and **Kiniry, J.R.** Two-phase simulation-based location-allocation optimization of biomass storage distribution. Simul. Modell. Pract. Theory. 86:155-68. 2018.

112. Reichmann, L.G., Collins, H.P., Jin, V.L., and Johnson, M.-V.V., **Kiniry, J.R.**, Mitchell, R.B., Polley, H.W., Fay, P.A. Inter-annual precipitation variability decreases switchgrass productivity from arid to mesic environments. BioEnergy Res. 11(3):614-22. 2018.

113. Guo, T., Engel, B.A., Shao, G., Arnold, J.G., Srinivasan, R., and **Kiniry, J.R.** Development and improvement of the simulation of woody bioenergy crops in the Soil and Water Assessment Tool (SWAT). Environ. Modell. Software. 2018.

114. Kim, S.M., Jeong, J., Keesee, D., and **Kiniry, J.R.** Development, growth, and biomass simulations of two common wetland tree species in Texas. Environ. Monit. Assess. 190(9):521. 2018. doi: 10.1007/s10661-018-6859-0. PMID: 30112684.

115. Pawlowski, M., Meki, M.N., **Kiniry, J.R.**, and Crow, S.E. Carbon budgets of potential tropical perennial grass cropping scenarios for bioenergy feedstock production. Carbon Balance Manag. 13(1):17. 2018.

116. Baez-Gonzalez, A.D., Torres-Meza, M.D., Royo-Marquez, M.O., and **Kiniry, J.R.** Climate variability and trends in climate extremes in the priority conservation area El Tokio and adjacent areas in Northeastern Mexico. Weather Clim. Extremes. 22:36-47. 2018. <https://doi.org/10.1016/j.wace.2018.10.001>.

117. Gesch, R.W., Long, D.S., Palmquist, D., Allen, B.L., Archer, D.W., Brown, J., Davis, J.B., Hatfield, J.L., Jabro, J.D., **Kiniry, J.R.**, Vigil, M.F., Oblath, E.A., and Isbell, T.A. Agronomic performance of Brassicaceae oilseeds in multiple environments across the Western USA. BioEnergy Res. 12(3):509-23. 2019.

\*118. **Kiniry, J.,** Kim, S., and Tonnang, H. Back to the future: Revisiting the application of an enzyme kinetic equation to maize development nearly four decades later. Agronomy. 9:566-577. 2019.

119. Chaganti, V., Ganjegunte, G., Niu, G., Ulery, A., Flynn, R.P., Enciso, J., Meki, M., and **Kiniry, J.** Effects of treated urban wastewater irrigation on bioenergy sorghum and soil quality. Agric. Water Manage. 228: 105894. 2019.

120. Gaston, L., Beasley, J., Blazier, M., Dodla, S., Felicien, W., and **Kiniry, J.R.** Miscanthus production on a Coastal Plain Soil. Soil Sci. 184(3): 69-77. 2019.

\*121. **Kiniry, J.R.** and Kim, S. A review of modeled water use efficiency of highly productive perennial grasses useful for bioenergy. Agronomy 10(3):328-341. 2020.

122. Meki, M.N., **Kiniry, J R.**, Worqlul, A.W., Kim, S., Williams, A.S., Osorio, J.M., and Reilley, J. Field and simulation‐based assessment of vetivergrass bioenergy feedstock production potential in Texas. Agron. J. 112(4):2692-2707. 2020.

123. Kim, S., Kim, S., Cho, J., Park, S., Perez, F.X.J., and **Kiniry, J. R.** Simulated biomass, climate change impacts, and nitrogen management to achieve switchgrass biofuel production at diverse sites in U.S. Agronomy 10(4):503-521. 2020.

124. Druille, M., Williams, A.S., Torrecillas, M., Kim, S., Meki, N., and **Kiniry, J.R.** Modeling climate warming impacts on grain and forage sorghum yields in Argentina. Agronomy 10(7). 2020.

125. Baez-Gonzalez, A.D., Fajardo-Diaz, R., Garcia-Romero, G., Ceja, E.O., **Kiniry, J.R.**, and Meki, M.N. High sowing densities in rainfed common beans (*Phaseolus vulgaris* L.) in Mexican semi-arid highlands under future climate change. Agronomy. 10(3):442-460. 2020. https://doi.org/10.3390/agronomy10030442.

126. Baez-Gonzalez, A.D., Fajardo-Diaz, R., Padilla-Ramirez, J.S., Osuna-Ceja, E.S., **Kiniry, J.R.**, Meki, M.N., and Acosta-Diaz, E. Yield performance and response to high plant densities of dry bean (*Phaseolus* *vulgaris* L.) cultivars under semi-arid conditions. Agronomy. 10(11):1684. 2020. https://doi.org/10.3390/agronomy10111684.

127. Crow, S.E., Wells, J.M., Sierra, C.A., Youkhana, A.H., Ogoshi, R.M., Richardson, D., Glazer, C.T., Meki, M.N., and **Kiniry, J.R.** Carbon flow through energycane agroecosystems established post-intensive agriculture. GCB Bioenergy. 12: 806-817. 2020. https://doi.org/10.1111/gcbb.12713

128. Kim, S., Ofekeze, E., **Kiniry, J.R.**, and Kim, S. Simulation-based capacity planning of a biofuel refinery. Agronomy. 10(11):1702. 2020. https://doi.org/10.3390/agronomy10111702.

129. Kim, S., Jeong, J., Kahara, S.N., Kim, S., and **Kiniry, J.R.** APEX simulation: Water quality of Sacramento Valley wetlands impacted by waterfowl droppings. J. Soil Water Conserv. 75(6):713-726. 2020. https://doi.org/10.2489/jswc.2020.00117.

130. Kim, S., Kim, S., **Kiniry, J.R.**, and Ku, K-M. A hybrid decision tool for optimizing broccoli production in a changing climate. Hortic. Environ. Biotechnol. 2020. https://doi.org/10.1007/s13580-020-00317-8

131. Kim, S., Meki, M.N., Kim, S., and **Kiniry, J.R.** Crop modeling application to improve irrigation efficiency in year-round vegetable production in the Texas Winter Garden Region. Agronomy. 10(10):1525. 2020. https://doi.org/10.3390/agronomy10101525

132. Rocateli, A.C., Ashworth, A.J., West, C.P., Brye, K.R., Popp, M.P., and **Kiniry, J.R.** Simulating switchgrass biomass productivity using ALMANAC. I. Calibration of soil water. Agron. J. 112:183-193. 2020. https://doi.org/10.1002/agj2.20054.

133. Williams, A.S., Mushet, D., Lang, M., Mccarty, G.W., Shaffer, J.A., Kahara, S.N., Johnson, M.V., and **Kiniry, J.R.** Improving the ability to include freshwater wetland plants in process-based models. J. Soil Water Conserv. 75(6):704-712. 2020. https://doi.org/10.2489/jswc.2020.00089.

\*134. **Kiniry, J.R.**, Arthur, C.E., Banick, K.M., Fritschi F.B., Wu, Y, Hawkes, C.V. Effects of plant-soil feedback on switchgrass productivity related to microbial origin. Agronomy 10(12): 1860. 2020. https://doi.org/10.3390/agronomy10121860

135. Williams, A.S., Kim, S. and **Kiniry, J.R.** Advances in Application of a Process-Based Crop Model to Wetland Plants and Ecosystems. Wetlands 41(18). 2021. https://doi.org/10.1007/s13157-021-01416-7.

136. Wells, J.M.; Crow, S.E.; Khanal, S.K.; Turn, S.; Hashimoto, A.; **Kiniry, J.**; Meki, N. Anaerobic Digestion and Hot Water Pretreatment of Tropically Grown C4 Energy Grasses: Mass, Carbon, and Energy Conversions from Field Biomass to Fuels. Agronomy 11, 838. 2021. https://doi.org/10.3390/agronomy11050838

137. Chaganti, V.N., Ganjegunte, G., Niu, G., Ulery, A., Enciso, J.M., Flynn, R., Meki, N., and **Kiniry, J.R.** Yield response of canola as a biofuel feedstock and soil quality changes under treated urban wastewater irrigation and soil amendment application. Industrial Crops and Products 170, 113659. 2021. https://doi.org/10.1016/j.indcrop.2021.113659

138. Chaganti, V.N., Ganjegunte, G., Meki, M.N., **Kiniry, J.R.**, and Niu, G. Switchgrass biomass yield and composition and soil quality as affected by treated wastewater irrigation in an arid environment. Biomass and Bioenergy 151, 106160. 2021. https://doi.org/10.1016/j.biombioe.2021.106160.

139. Jacot, J., **Kiniry, J.R.**, Williams, A.S., Coronel, A., Su, J., Miller, G.R., Mohanty, B., Saha, A., Gomez-Casanovas, N., Johnson, J.M.F., and Browning, D.M. Use of PhenoCam Measurements and Image Analysis to Inform the ALMANAC Process-based Simulation Model. Journal of Experimental Agriculture International, 43(4), 120-144. 2021. https://doi.org/10.9734/jeai/2021/v43i430684

140. Jacot, J., Williams, A.S., and **Kiniry, J.R.** Biofuel Benefit or Bummer? A Review Comparing Environmental Effects, Economics, and Feasibility of North American Native Perennial Grass and Traditional Annual Row Crops When Used for Biofuel. Agronomy 11(7), 1440. 2021. https://doi.org/10.3390/agronomy11071440

**Additional Publications**

\*141. **Kiniry, J.R.** Application of an enzyme kinetic equation to maize (Zea mays L.) development rates. Univ. of Mo. 68 pp. 1979. (Thesis)

142. Jones, C.A., Ritchie, J.T., **Kiniry, J.R.**, Godwin, D.C., and Otter, S.I. The CERES wheat and maize models, pp. 95-100. In Intl. Symp. On Minimum Data Sets for Agrotechnology Transfer, ICRISAT Center, India. 1984. (Proceedings)

\*143. **Kiniry, J.R.** Response of maize kernel number to shading stress: Timing of sensitivity in the reproductive stage and characteristics of genotypes differing in this sensitivity. Texas A&M Univ. 132 pp. 1985. (Dissertation)

144. Jones, C.A. and **Kiniry, J.R.** (eds.) CERES-Maize: A Simulation Model of Maize Growth and Development, Texas A&M Univ. Press, College Station, TX. 1986. (Book)

145. Ritchie, J.T., **Kiniry, J.R.**, Jones, C.A., and Dyke, P.T. Model Inputs, pp. 28-43. In Jones, C.A. and Kiniry, J.R. (eds.) CERES-Maize: A Simulation Model of Maize Growth and Development, Texas A&M Univ. Press, College Station, TX. 1986. (Book Chapter)

146. Jones, C.A., Ritchie, J.T., **Kiniry, J.R.**, and Godwin, D.C. Subroutine Structure, pp. 44-114. In Jones, C.A. and Kiniry, J.R. (eds.) CERES-Maize: A Simulation Model of Maize Growth and Development, Texas A&M Univ. Press, College Station, TX. 1986. (Book Chapter)

\*147. **Kiniry, J.R.** and Jones, C.A. Testing, pp. 115-136. In Jones, C.A. and Kiniry, J.R. (eds.) CERES-Maize: A Simulation Model of Maize Growth and Development, Texas A&M Univ. Press, College Station, TX. 1986. (Book Chapter)

\*148. **Kiniry, J.R**. and Dugas, W.A. Temperatures during maize growth: Differences between six U.S. locations and possible implications for growth and grain yield. Texas Agric. Exp. Sta. MP-1628. 1987. (Technical bulletin)

149. Robertson, T., Benson, V., Williams, J.R., Jones, C.A., and **Kiniry, J.R.** Impacts of climate change on yields and erosion for selected crops in the southern United States, p. 4. In Proc. Symp. On Climate Change in the Southern United States: Future Impacts and Present Policy Issues. 1987. (Technical bulletin)

\*150. **Kiniry, J.R.** Seed size and yield compensation in sorghum, pp. 148-151. In Proc. 16th Biennial Grain Sorghum Research and Utilization Conf., Lubbock, TX. 1989.

\*151. **Kiniry, J.R.** Physiological mechanisms associated with environmental alteration of grain weight of sorghum, p. 171. In Proc. 16th Biennial Grain Sorghum Research and Utilization Conf., Lubbock, TX. 1989.

\*152. **Kiniry, J.R.**, Spanel, D.A., Williams, J.R., and Jones, C.A. Demonstration and validation of crop grain yield simulation by EPIC, pp. 220-235, Chapter 13. In Sharpley, A. and Williams, J.R. (eds.) EPIC-Erosion Productivity Impact Calculator: 1. Model Documentation. USDA Tech. Bull. #1768. (Book Chapter)

\*153. **Kiniry, J.R.**, Richardson, C.W., and Spanel, D.A. Optimum corn sowing date in central Texas determined by computer simulation. Texas Agric. Exp. Sta. MP-1701. 3 pp. 1990. (Technical bulletin)

154. Benson, V.W., Goldstein, W.A., Young, D.L., Williams, J.R., Jones, C.A., and **Kiniry, J.R.**  Impacts of integrated cropping practices on nitrogen use and movement, pp. 426-428. In Unger, P.W. and Jordan, T.V. (eds.) Proc. Intl. Conf. on Dryland Farming, Challenges in Dryland Agriculture - A Global Perspective, August 15-19, 1988, Amarillo/Bushland, TX, Texas Agric. Exp. Sta. 1990.

155. Jones, C.A., Williams, J.R., and **Kiniry, J.R.** Simulation models of maize growth and development, pp. 309-322. In Maize 90, Intl. Advanced Course in Maize Breeding, Production, Processing and Marketing in Mediterranean Countries, September 17-October 13, 1990, Belgrade, Yugoslavia. 1990. (Book Chapter).

\*156. **Kiniry, J.R.**  Plant Development: Maize, pp. 55-70. In Ritchie, J.T. and Hanks, R.J. (eds.) Modeling Plant and Soil Systems. Am. Soc. Agron. Mono. 1991. (Book Chapter)

\*157. **Kiniry, J.R.** and Bonhomme, R. Predicting maize phenology, pp. 115-131. In Hodges, T. (ed.) Physiological Aspects of Predicting Crop Phenology. CRC Press. 1991. (Book Chapter)

\*158. **Kiniry, J.R.**, Rosenthal, W.D., Jackson, B.S., and Hoogenboom, G. Predicting leaf development of crop plants, pp. 29-42. In Hodges, T. (ed.) Physiological Aspects of Predicting Crop Phenology. CRC Press. 1991. (Book Chapter)

159. Major, D.J. and **Kiniry, J.R.** Predicting phenological responses to daylength, pp. 15-28. In Hodges, T. (ed.) Physiological Aspects of Predicting Crop Phenology. CRC Press. 1991. (Book Chapter)

160. Williams, J.R., **Kiniry, J.R.**, and Benson, V.W. Water quality sensitivity to EPIC crop growth parameters. ASAE Paper No. 91-2075. 1991. (Technical Report)

161. Debaeke, P., **Kiniry, J.R.**, and Caussanel, J.P. An integrated model of crop-weed interaction: Application to wheat-oats mixtures. In 8th European Weed Res. Soc. Symposium Quantitative approaches in weed and herbicide research and their practical application. Braunschweig, Germany. 1993.

162. Bouzaher, A., Shogren, J.R., Holtkamp, D., Gassman, P., Archer, D., Carriquiry, A., Reese, R., Furtan, W.H., Izaurralde, R.C., and **Kiniry, J.R.**  Agricultural policies and soil degradation of Western Canada: An agro-ecological economic assessment. Report 1, Agricultural Canada and Iowa State University. 1993. (Technical bulletin)

163. Bouzaher, A., Shogren, J.F., Holtkamp, D., Gassman, P., Archer, D., Lakshminarayan, P., Carriquiry, A., Reese, R., Furtan, W.H., Izaurralde, R. C., and **Kiniry, J.R.** Agricultural policies and soil degradation in Western Canada: An agro-ecological economic assessment. Report 2, The Environmental Modeling System. Agriculture Canada and Iowa State University. 1993. (Technical bulletin)

\*164. **Kiniry, J.R.** and Williams, J.R. Simulating intercropping with the ALMANAC model, pp. 387-396. In Sinoquet, H. and Cruz, P. (eds.) Ecophysiology of Tropical Intercropping, Institut National de la Recherche Agronomique, 1995. (Book Chapter)

\*165. **Kiniry, J.R.**  Sorghum seed weight compensation and stored assimilate use during grain filling, p. 23. In Proc. 19th Biennial Grain Sorghum Research and Utilization Conf., Lubbock, TX. 1995.

\*166. **Kiniry, J.R.**, Benson, V.W., English, B.C., and White, R.L. Simulating crop technologies: A set of case studies, pp. 165-174. In English, B.C., White, R.L., and Chuang, L. (eds.) Crop and Livestock Technologies: RCA III Symposium. Iowa State Univ. Press. 186 pp. 1997. (Book Chapter)

\*167. **Kiniry, J.R.**, Sanchez, H., Greenwade, J., Seidensticker, E., Bell, J.R., Pringle, F., Peacock, Jr., G., and Rives, J. Simulating biomass/forage production of eastern gamagrass, switchgrass, and other warm season grasses, pp. 167-172. In Proc. of the Second Eastern Native Grass Symp. Baltimore, MD. 1999.

\*168. **Kiniry, J.R.**, Tischler, C.R., and Van Esbroeck, G.A. Leaf area production, biomass production, and biomass partitioning for eastern gamagrass, Alamo switchgrass and two other C4 grasses, pp. 173-181. In Proc. of the Second Eastern Native Grass Symp. Baltimore, MD. 1999.

\*169. **Kiniry, J.R.** and Otegui, M.E. Processes affecting maize grain yield potential in temperate conditions, pp. 31-46. In Otegui, M.E. and Slafer, G.A. (eds.) Physiological Bases for Maize Improvement. Food products press, an imprint of the Haworth Press, Inc., Birminghamton, N.Y. 2000. (Book Chapter)

\*170. **Kiniry, J.R.,** Arnold, J.G., and Xie, Yun. Applications of models with different spatial scale, pp. 207-227. In Ahuja, L.R., Ma, L., and Howell, T.A. (eds.) Agricultural Systems Models in Field Research and Technology Transfer. Lewis Publishers of CRC Press, Boca Raton, FL. 2002. (Book Chapter)

171. Ma, L., Nielsen, D.C., Ahuja, J.R., **Kiniry, J.R.**, Hanson, J.D., and Hoogenboom, G. An evaluation of RZWQM, CROPGRO, and CERES-Maize for responses to water stress in the Central Great Plains of the U.S., pp. 119-148.In Ahuja, L. R., Ma, L., and Howell, T. A. (eds.) Agricultural Systems Models in Field Research and Technology Transfer. Lewis Publishers of CRC Press, Boca Raton, FL. 2002. (Book Chapter)

172. Neitsch, S.L., Arnold, J.G., **Kiniry, J.R.**, Williams, J.R., and King, K.W. Soil and Water Assessment Tool, Theoretical Documentation. Version 2000. GSWRL 02-01. 458 pp. 2002.

\*173. **Kiniry, J.R.**, Williams, J.R., Schmidt, K.M., and White, L.D. Simulating water use by saltcedar with the EPIC model, pp. 75-84. InProc. of the Saltcedar and Water Resources in the West Symposium. July 16-17, San Angelo, Texas. 2003.

174. MacDonald, J.D*.*, **Kiniry, J.**, Arnold, J., McKeown, R., Whitson, I., Putz, G., and Prepas, E. Developing parameters to simulate trees with SWAT. InAbbaspour, K. and Srinivasan, R. (eds). Proceedings of the 3rd International SWAT 2000 Conference, Zurich, Switzerland, July 11-15. Texas Water Resources Institute, College Station, TX. 2005.

\*175. **Kiniry, J.R.** A general crop model, pp. 1-12. InRichardson, C.W., Baez-Gonzalez, A.D., and Tiscareno-Lopez, M. (eds.) Modeling and Remote Sensing Applied to Agriculture (U.S. and Mexico). 2006. (Book Chapter)

176. MacDonald, J.D., Luke, S.L., **Kiniry, J.**, and Putz, G. Evaluating the role of shrub, grass and forb growth after harvest in forested catchment water balance using SWAT coupled with the ALMANAC model. InAbbaspour, K. and Srinivasan, R. (eds). Texas Water Resources Institute, College Station, TX. Proceedings of the 4th International SWAT Conference, UNESCO-IHE, Delft, The Netherlands, July 2-6. 12 p. 2007. (In Press)

\*177. **Kiniry, J.R.**, Lynd, L., Greene, N., Johnson, M.V., Casler, M., and Laser, M.S. Biofuels and water use: Comparison of maize and switchgrass and general perspectives, Chapter 2, pp. 17-130. In Wright, J.H. and Evans, D.A. (eds.) New Research in Biofuels. Nova Science Publisher, Inc. 2008. (Invited Book Chapter)

178. Meki, M.N. and **Kiniry,** **J.R.** A Dynamic Tool - Resource assessment framework for dependable feedstock supply to produce advanced biofuels in Hawaii.  2013.

179. Lowry, D.B., Behrman, K.D., Grabowski, P., Morris, G.P., **Kiniry, J.R.**, and Juenger, T.E. Adaptations between ecotypes and along environmental gradients in *Panicum virgatum*. The American Naturalist 183:682-692. 2014.

180. Behrman, K.D., Meki, M.N., Wu, Y., and **Kiniry, J.R.** Applications of biomass production modeling for switchgrass, Chapter 12, pp. 356-377. In Luo, H., Wu, Y., and Cole, C. (eds.) Compendium of Bioenergy Plants SWITCHGRASS. CRC Press. Francis & Taylor Group. Boca Raton, FL 33487-2742. 2014. (Invited Book Chapter, Accepted for publication Feb., 2014).

181. Meki, M.N*.*, **Kiniry, J.R.**, Behrman, K.D*.*, Pawlowski, M.N., and Crow, S.E. The role of simulation models in monitoring soil organic carbon storage and greenhouse gas mitigation potential in bioenergy cropping systems, pp. 118-120. InTech Europe - open science | open minds (Publ.). International Innovation: The Global Forecast, October 2013. Research Media, UK, ISSN 2051-8544. 2014. (Invited Book Chapter, Accepted for publication 16 March 2014).

\*182. **Kiniry, J.R.**, Meki, M.N., Schumacher, T.E., Zilverberg, C.J., Fritschi, F.B., and Kakani, V.G. Modeling to evaluate and manage water and environmental sustainability of bioenergy crops in the United States. pp. 139-160 in Practical Applications of Agricultural System Models to Optimize the Use of Limited Water. Advances in Agricultural Systems Models 5. American Soc. of Agron. 2014 (Invited Book Chapter).

183. Kim, S., Jeong, J., and **Kiniry, J.R.** Simulating the Productivity of Desert Woody Shrubs in Southwestern Texas, Chapter 2, pp. 23-51. Arid Environments and Sustainability. 2018. (Book Chapter).

\*184. **Kiniry, J.R.**, Kim, S., Meki, M.N., and Johnson, M.-V.V. Forage Yield Estimation with a Process-Based Simulation Model, pp. 1-18. Forage Groups. 2019. (Book Chapter).