SWAT Peer Reviewed Publication Categorical List (August 17, 2008)
(Provided by Philip Gassman, Georgie Mitchell, and Manuel Reyes)

Journal articles reporting SWAT Applications

1. Abbaspour, K.C., J. Yang, I. Maximov, R. Siber, K. Bogner, J. Mieleitner, J. Zobrist, and R. Srinivasan. 2006. Modelling hydrology and water quality in the pre-alpine/alpine Thur watershed using SWAT. *J. Hydrol.* 333(2-4): 413-430.

2. Afinowicz, Jason D., Clyde L. Munster, and Bradford P. Wilcox. 2005. Modeling Effects of Brush Management on the Rangeland Water Budget: Edwards Plateau, Texas. *J. Amer. Water Resour. Assoc.* 41(1): 181-193.

3. Anand, S., K.R. Mankin, K.A. McVay, K.A. Janssen, P.L. Barnes, and G.M. Pierzynski. 2007. Calibration and validation of ADAPT and SWAT for field-scale runoff prediction. *J. Amer. Water Resour. Assoc.* 43(4): 899-910.

4. Arabi, M., R.S. Govindaraju, and M.M. Hantush. 2006. Cost-effective allocation of watershed management practices using a genetic algorithm. *Water Resour. Res.* 42.W10429, doi:10,1029/2006WR004931.

5. Arabi, M., R.S. Govindaraju, and M.M. Hantush. 2007. A probabilistic approach for analysis of uncertainty in the evaluation of watershed management practices. *J. Hydrol.* 333(2-4): 459-471.

6. Arabi, M., R.S. Govindaraju, M.M. Hantush, and B.A. Engel. 2006. Role of watershed subdivision on modeling the effectiveness of best management practices with SWAT. *J. Amer. Water Resour. Assoc.* 42(2): 513-528.

7. Arnold, J.G., and P.M. Allen. 1996. Estimating hydrologic budgets for three Illinois watersheds. *J. Hydrol.* 176(1996): 57-77.

8. Arnold, J.G., P.M. Allen, and D. Morgan. 2001. Hydrologic model for design of constructed wetlands. *Wetlands* 21(2): 167-178.

9. Arnold, J.G. and N. Fohrer. 2005. SWAT2000: current capabilities and research opportunities in applied watershed modeling. *Hydrol. Process.* 19(3): 563-572.

10. Arnold, J.G., R.S. Muttiah, R. Srinivasan, and P.M. Allen. 2000. Regional estimation of base flow and groundwater recharge in the upper Mississippi basin. *J. Hydrol.* 227(2000): 21-40.

11. Arnold, J.G., K.N. Potter, K.W. King, and P.M. Allen. 2005. Estimation of soil cracking and the effect on surface runoff in a Texas Blackland Prairie Watershed. *Hydrol. Process.* 19(3): 589-603.

12. Arnold, J. G., R. Srinivasan, and B.A. Engel. 1994. Flexible watershed configurations for simulation models. American Institute of Hydrology. *Hydrolog. Sci. Tech.* 30(1-4): 5-14.

13. Arnold, J.G., R. Srinivasan, R.S. Muttiah, and P.M. Allen. 1999. Continental scale simulation of the hydrologic balance. *J. Amer. Water Resour. Assoc.* 35(5): 1037-1052.

14. Arnold, J.G., R. Srinivasan, R.S. Muttiah, and J.R. Williams. 1998. Large area hydrologic modeling and assessment part I: model development. *J. Amer. Water Resour. Assoc.* 34(1): 73-89.

15. Arnold, J.G., R. Srinivasan, T.S. Ramanarayanan, and M. Diluzio. 1999. Water resources of the Texas gulf basin. *Water Sci. Tech.* (39)3: 121-133.

16. Attwood, J.D., B. McCarl, C.C. Chen, B.R. Eddleman, B. Nayda, and R. Srinivasan. 2000. Assessing regional impacts of change: linking economic and environmental models. *Agric. Syst.* 63: 147-159.

17. Bärlund, I., T. Kirkkala, O. Malve, and J. Kämäri. 2007. Assesing the SWAT model performance in the evaluation of management actions for the implementation of the Water Framework Directive in a Finnish catchment. *Environ. Model. Soft.* 22(5): 719-724.

18. Behera, S. and R.K. Panda. 2006. Evaluation of management alternatives for an agricultural watershed in a sub-humid subtropical region using a physical process

model. *Agr. Ecosyst. Environ.* 113(1-4): 62-72.

19. Bekele, E.G. and J.W. Nicklow. 2005. Multiobjective management of ecosystem services by integrative watershed modeling and evolutionary algorithms. *Water Resour. Res.* 41, W1046, doi:10.1029/2005WR004090.

20. Bekele, E.G. and J.W. Nicklow. 2007. Multi-objective automatic calibration of SWAT using NSGA-II. *J. Hydrol.* 341(3-4): 165-176.

21. Benaman, J. and C.A. Shoemaker. 2005. An analysis of high-flow sediment event data for evaluating model performance. *Hydrol. Process.* 19(3): 605-620.

22. Benaman, J. and C.A. Shoemaker. 2004. Methodology for analyzing ranges of uncertain model parameters and their impact on total maximum daily load processes. *J. Environ. Engr.* 130(6): 648-656.

23. Benaman, J., C.A. Shoemaker, and D.A. Haith. 2006. Calibration and validation of soil and water assessment tool on an agricultural watershed in upstate New York. *J. Hydrol. Engr.* 10(5): 363-374.

24. Bingner, R. L. 1996. Runoff Simulated from Goodwin Creek Watershed Using SWAT. *Trans. ASAE* 39(1): 85-90.

25. Bingner, R.L., J. Garbrecht, J.G. Arnold, and R. Srinivasan. 1997. Effect of watershed subdivision on simulated runoff and fine sediment yield. *Trans. ASAE* 40(5): 1329-1335.

26. Boorman, D.B. 2003. Climate, Hydrochemistry and Economics of Surface-water Systems (CHESS): adding a European dimension to the catchment modelling experience developed under LOIS. *Sci. Total Environ.* 314-316: 411-437.

27. Bosch, D.D., J.M. Sheridan, H. L. Batten, J. G. Arnold. 2004. Evaluation of the SWAT Model on a Coastal Plain Agricultural Watershed. *Trans. ASAE* 47(5): 1493-1506.

28. Bouraoui, F., S. Benabdallah, A. Jrad, and G. Bidoglio. 2005. Application of the SWAT model on the Medjerda river basin (Tunisia). *Phys. Chem. Earth* 30(8-10):

497-507.

29. Bouraoui, F., L. Galbiati, and G. Bidoglio. 2002. Climate change impacts on nutrient loads in the Yorkshire Ouse catchment (UK). *Hydrol. Earth Syst. Sci.* 6(2): 197-209.

30. Bouraoui, F., B. Grizzetti, K. Granlund, S. Rekolainen, and G. Bidoglio. 2004. Impact of climate change on the water cycle and nutrient losses in a Finnish catchment. *Clim. Change* 66: 109-126.

31. Bracmort, K.S., M. Arabi, J.R. Frankenberger, B.A. Engel, and J.G. Arnold. 2006. Modeling long-term water quality impact of structural BMPs. *Trans. ASABE* 49(2): 367-374.

32. Cao, W., W.B. Bowden, T. Davie, and A. Fenemor. 2006. Multi-variable and multi-site calibration and validation of SWAT in a large mountainous catchment with high spatial variability. *Hydrol. Process.* 20(5): 1057-1073.

33. Cerucci, M. and J.M. Conrad. 2003. The use of binary optimization and hydrologic models to form riparian buffers. *J. Amer. Water Resour. Assoc.* 39(5): 1167-1180.

34. Chanasyk, D.S., E. Mapfumo, and W. Willms. 2003. Quantification and simulation of surface runoff from fescue grassland watersheds. *Agr. Water Manage.* 59 (2003): 137-153.

35. Chaplot, V. 2005. Impact of DEM mesh size and soil map scale on SWAT runoff, sediment, and NO_3-N loads predictions. *J. Hydrol.* 312(1-4): 207-222.

36. Chaplot, V. 2007. Water and soil resources response to rising levels of atmospheric CO_2 concentration and to changes in precipitation and air temperature. *J. Hydrol.* 337(1-2): 159-171.

37. Chaplot, V., A. Saleh, and D.B. Jaynes. 2005. Effect of the accuracy of spatial rainfall information on the modeling of water, sediment, and NO_3-N loads at the watershed level. *J. Hydrol.* 312(1-4): 223-234.

38. Chaplot, V., A. Saleh, D.B. Jaynes, and J. Arnold. 2004. Predicting water, sediment

and NO$_3$-N loads under scenarios of land-use and management practices in a flat watershed *Water Air Soil Poll.* 154 (1-4): 271-293.

39. Chaubey, I., A.S. Cotter. T.A. Costello, and T.S. Soerens. 2005. Effect of DEM data resolution on SWAT output uncertainty. *Hydrol. Process.* 19(3): 621-628.

40. Chen, E. and D.S. Mackay. 2004. Effects of distribution-based parameter aggregation on a spatially distributed agricultural nonpoint source pollution model. *J. Hydrol.* 295: 211-224.

41. Cheng, H., W. Ouyang, F. Hao, X. Ren, and S. Yang. 2006. The non-point source pollution in livestock-breeding areas of the Heihe River basin in Yellow River. *Stoch. Environ. Res. Risk Assess.* DOI 10.1007/s00477-006-0057-2.

42. Cho, S.M. and L.M. Lee. 2001. Sensitivity considerations when modeling hydrologic processes with digital elevation model. *J. Amer. Water Resour. Assoc.* 37(4): 931-934.

43. Christiansen, J.H. and M. Altaweel. 2006. Simulation of natural and social process interactions: An example from Bronze Age Mesopotamia. *Soc. Sci. Comput. Rev.* 24(2): 209-226.

44. Chu, T.W. and A. Shirmohammadi. 2004. Evaluation of the SWAT model's hyrodology component in the piedmont physiographic region of Maryland. *Trans. ASAE* 47(4): 1057-1073.

45. Chu, T.W., A. Shirmohammadi, H. Montas, and A. Sadeghi. 2004. Evaluation of the SWAT model's sediment and nutrient components in the Piedmont Physiographic Region of Maryland. *Trans. ASAE* 47(5): 1523-1538.

46. Coffey, M.E., S.R. Workman, J.L. Taraba, and A.W. Fogle. 2004. Statistical procedures for evaluating daily and monthly hydrologic model predictions. *Trans. ASAE* 47(1): 59-68.

47. Conan, C., F. Bouraoui, N. Turpin, G. de Marsily, and G. Bidoglio. 2003. Modeling flow and nitrate fate at catchment scale in Brittany (France). *J. Environ. Qual.* 32: 2026-2032.

48. Conan, C., G. de Marsily, F. Bouraoui, and G. Bidoglio. 2003. A long-term hydrological modelling of the Upper Guadiana river basin (Spain). *Phys. Chem. Earth* 28 (2003): 193-200.

49. Confessor Jr., R.B. and G.W. Whittaker. 2007. Automatic calibration of hydrologic models with multi-objective evolutionary algorithm and pareto optimization. *J. Amer. Water Resour. Assoc.* 43(4): 981-989.

50. Cotter, A.S., I. Chaubey, T.A. Costello, T.S. Soerens, and M.A. Nelson. 2003. Water quality model output uncertainty as affected by spatial resolution of input data. *J. Amer. Water Resour. Assoc.* 39(4): 977-986.

51. Cruise, J.F., A.S. Limaye, and N. Al-Abed. 1999. Assessment of impacts of climate change on water quality in the Southeastern United States. *J. Amer. Water Resour. Assoc.* 35(6): 1539-1550.

52. Debele, B., R. Srinivasan, and J.-Y. Parlange. 2005. Coupling upland watershed and downstream waterbody hydrodynamic and water quality models (SWAT and CE-QUAL-W2) for better water resources management in complex river basins. *Environ. Model. Assess.* DOI 10.1007/s10666-006-9075-1.

53. Deliberty, T.L. and D.R. Legates. 2003. Interannual and seasonal variability of modelled soil moisture in Oklahoma. *Int. J. Climatol.* 23: 1057-1086.

54. Di Luzio, M., J.G. Arnold and R. Srinivasan. 2005. Effect of GIS data quality on small watershed stream flow and sediment simulations. *Hydrol. Process.* 19(3): 629-650.

55. Di Luzio, M., J.G. Arnold, and R. Srinivasan. 2004. Integration of SSURGO maps and soil parameters within a geographic information system and nonpoint source pollution model system. *J. Soil Water Conserv.* 59(4): 123-133.

56. DiLuzio, M. and J.G. Arnold. 2004. Formulation of a hybrid calibration approach for a physically based distributed model with NEXRAD data input. *J. Hydrol.* 298(1-4): 136-154.

57. Di Luzio, M., R. Srinivasan, and J.G. Arnold. 2004. A GIS-coupled hydrological model system for the watershed assessment of agricultural nonpoint and point sources of pollution. *Trans. GIS* 8(1): 113-136.

58. Di Luzio, M., R. Srinivasan, and J.G. Arnold. 2002. Integration of watershed tools and SWAT model into BASINS. *J. Amer. Water Resour. Assoc.* 38(4): 1127-1141.

59. Du, B., J. G. Arnold, A. Saleh, and D. B. Jaynes. 2005. Development and application of SWAT to landscapes with tiles and potholes. *Trans. ASAE.* 48(3): 1121-1133.

60. Du, B., A. Saleh, D.B. Jaynes, and J.G. Arnold. 2006. Evaluation of SWAT in simulating nitrate nitrogen and atrazine fates in a watershed with tiles and potholes. *Trans. ASABE* 49(4): 949-959.

61. Edmonds, James A. and Norman J. Rosenberg. 2005. Climate change impacts for the conterminous USA: An integrated assessment summary. *Clim. Change* 69: 151-162.

62. El-Nasr, A.A., J.G. Arnold, J. Feyen, and J. Berlamont. 2005. Modelling the hydrology of a catchment using a distributed and a semi-distributed model. *Hydrol. Process.* 19(3): 573-587.

63. Eheart, J.W. and D.W. Tornil. 1999. Low-flow frequency exacerbation by irrigation withdrawals in the agricultural midwest under various climate change scenarios. *Water Resour. Res.* 35(7): 2237-224

64. Engel, B.A., R. Srinivasan, J.G. Arnold, C. Rewerts, and S.J. Brown. 1993. Nonpoint Source (NPS) Pollution Modeling Using Models Integrated with Geographic Information Systems (GIS). *Water Sci. Tech.* 28(3-5): 685-690.

65. Feyereisen, G.W., T.C. Strickland, D.D. Bosch, and D.G. Sullivan. 2007. Evaluation of SWAT manual calibration and input parameter sensitivity in the Little River watershed. *Trans. ASABE* 50(3): 843-855.

66. FitzHugh, T. W., and D.S. Mackay. 2000. Impacts of input parameter spatial aggregation on an agricultural nonpoint source pollution model. *J. Hydrol.* 236: 35-53.

67. FitzHugh, T. W., and D.S. Mackay. 2001. Impact of subwatershed partitioning on modeled source- and transport-limited sediment yields in an agricultural nonpoint source pollution model. *J. Soil Water Conserv.* 56(2): 137-143.

68. Fontaine, T.A., T.S. Cruickshank, J.G. Arnold and R.H. Hotchkiss. 2002. Development of a snowfall-snowmelt routine for mountainous terrain for the soil water assessment tool (SWAT), *J. Hydrol.* 262(1-4): 209-223.

69. Fontaine, T.A., J.F. Klassen, T.S. Cruickshank, and R.H. Hotchkiss. 2001. Hydrological response to climate change in the Black Hills of South Dakota, USA. *Hydrolog. Sci. J.* 46(1): 27-40.

70. Francos, A., G. Bidoglio, L. Galbiati, F. Bouraoui, F.J. Elorza, S. Rekolainen, K. Manni, and K. Granlund. 2001. Hydrological and water quality modelling in a medium-sized coastal basin. *Phys. Chem. Earth* 26(1): 47-52.

71. Francos, A., F.J. Elorza, F. Bouraoui, G. Bidoglio, and L. Galbiati. 2003. Sensitivity analysis of distributed environmental simulation models: understanding the model behaviour in hydrological studies at the catchment scale. *Reliab. Eng. Syst. Safe.* 79: 204-218.

72. Galbiati, L., F. Bouraoui, F.J. Elorza, and G. Bidoglio. 2006. Modeling diffuse pollution loading into a Mediterranean lagoon: Development and application of an integrated surface-subsurface model tool. *Ecol. Model.* 193(1-2): 4-18.

73. Garbrecht, J.D., J.M. Schneider, and M.W. Van Liew. 2006. Monthly runoff predictions based on rainfall forecasts in a small Oklahoma watershed. *J. Amer. Water Resour. Assoc.* 42(5): 1285-1295.

74. Gassman, P.W., E. Osei, A. Saleh, and L.M. Hauck. 2002. Application of an environmental and economic modeling system for watershed assessments. *J. Amer. Water Resour. Assoc.* 38(2): 423-438.

75. Gassman, P.W., E. Osei, A. Saleh, J. Rodecap, S. Norvell, and J. Williams. 2006. Alternative practices for sediment and nutrient loss control on livestock farms in

northeast Iowa. *Agr. Ecosyst. Environ.* 117(2-3): 135-144.

76. Gassman P.W., M. Reyes, C.H. Green, and J.G. Arnold. 2007. The Soil and Water Assessment Tool: Historical development, applications, and future directions. *Trans. ASABE* 50(4) (forthcoming).

77. Geza, M. and J.E. McCray. 2007. Effects of soil data resolution on SWAT model stream flow and water quality predictions. *J. Environ. Manage*. doi: 10.1016/j.jenvman.2007.03.016. (online; in press).

78. Gikas, G.D., T. Yiannakopoulou, and V.A. Tsihrintzis. 2005. Modeling of non-point source pollution in a Mediterranean drainage basin. *Envron. Model. Assess.* DOI 10.1007/s10666-005-9017-3.

79. Gitau, M.W., T.L. Veith, and W.J. Gburek. 2004. Farm-level optimization of BMP placement for cost-effective pollution reduction. *Trans. ASAE* 47(6): 1923-1931.

80. Gitau, M.W., T.L. Veith, W.J. Gburek, and A.R. Jarrett. 2006. Watershed level best management practice selection and placement in the Town Brook watershed, New York. *J. Amer. Water Resour. Assoc.* 42(6): 1565-1581.

81. Gosain, A.K., S. Rao, and D. Basuray. 2006. Climate change impact assessment on hydrology of Indian river basins. *Curr. Sci. India* 90(3): 346-353.

82. Gosain, A.K., S. Rao, R. Srinivasan, and N. Gopal Reddy. 2005. Return-flow assessment for irrigation command in the Palleru river basin using SWAT model. *Hydrol. Process.* 19(3): 673-682.

83. Govender, M. and C.S. Everson. 2005. Modelling streamflow from two small South African experimental catchments using the SWAT model. *Hydrol. Process.* 19(3): 683-692.

84. Green, C.H., M.D. Tomer, M. Di Luzio, and J.G. Arnold. 2006. Hydrologic evaluation of the soil and water assessment tool for a large tile-drained watershed in Iowa. *Trans. ASABE* 49(2): 413-422.

85. Grizzetti, B., F. Bouraoui, and G. De Marsily. 2005. Modelling nitrogen pressure in river basins: A comparison between a statistical approach and the physically-based SWAT model. *Phys. Chem. Earth* 30(8-10): 508-517.

86. Grizzetti, B., F. Bouraoui, K. Granlund, S. Rekolainen, and G. Bidoglio. 2003. Modelling diffuse emission and retention of nutrients in the Vantaanjoki watershed (Finland) using the SWAT model. *Ecol. Model.* 169: 25-38.

87. Grunwald, S. and C. Qi. 2006. GIS-based water quality modeling in the Sandusky Watershed, Ohio, USA. *J. Amer. Water Resour. Assoc.* 42(4): 957-973.

88. Hanratty, M.P. and H.G. Stefan. 1998. Simulating climate change effects in a Minnesota agricultural watershed. *J. Environ. Qual.* 27: 1524-1532.

89. Hao, F.H., X.S. Zhang, and Z.F. Yang. 2004. A distributed non-point source pollution model: calibration and validation in the Yellow River Basin. *J. Environ. Sci.* 16(4): 646-650.

90. Harmel, R.D. and P.K. Smith. 2007. Consideration of measurement uncertainty in the evaluation of goodness-of-fit in hydrologic and water quality modeling. *J. Hydrol.* 337: 326-336.

91. Harmel, R. D., C.W. Richardson, and K.W. King. 2000. Hydrologic response of a small watershed model to generated precipitation. *Trans. ASAE* 43(6): 1483-1488.

92. Haverkamp, S., N. Fohrer, and H.-G. Frede. 2005. Assessment of the effect of land use patterns on hydrologic landscape functions: a comprehensive GIS-based tool to minimize model uncertainty resulting from spatial aggregation. *Hydrol. Process.* 19(3): 715-727.

93. Haverkamp, S., R. Srinivasan, H.-G. Frede and C. Santhi. 2002. Subwatershed spatial analysis tool: discretization of a distributed hydrologic model by statistical criteria. *J. Amer. Water Resour. Assoc.* 38 (6): 1723-1733.

94. Hernandez, M., S.C. Miller, D.C. Goodrich, B.F. Goff, W.G. Kepner, C.M. Edmonds, and K.B. Jones. 2000. Modeling runoff response to land cover and rainfall spatial

variability in semi-arid watersheds. *Environ. Monit. Assess.* 64: 285-298.

95. Heuvelmans, G., J. F. Garcio-Qujano, B. Muys, J. Feyen, and P. Coppin. 2005. Modelling the water balance with SWAT as part of the land use impact evaluation in a life cycle study of CO_2 emission reduction scenarios. *Hydrol. Process.* 19(3): 729-748.

96. Heuvelmans, G., B. Muys, and J. Feyen. 2004. Analysis of the spatial variation in the parameters of the SWAT model with application in Flanders, Northern Belgium. *Hydrol. Earth Syst. Sci.* 8(5): 931-939.

97. Heuvelmans, G., B. Muys, and J. Feyen. 2006. Regionalisation of the parameters of a hydrological model: Comparison of linear regression models with artificial neural nets. *J. Hydrol.* 319(1-4): 245-265.

98. Heuvelmans, G., B. Muys, and J. Feyen. 2004. Evaluation of hydrological model parameter transferability for simulating the impact of land use on catchment hydrology. *Phys. Chem. Earth* 29(11-12): 739-747.

99. Holvoet, K., A. van Griensven, V. Gevaert, P. Seuntjens, and P.A. Vanrolleghem. 2007. Modifications to the SWAT code for modeling direct pesticide losses. *Environ. Model. Soft.* doi:10.1016/j.envsoft.2007.05.002 (online; in press).

100. Holvoet, K., A. van Griensven, P. Seuntjens, and P.A. Vanrolleghem. 2005. Sensitivity analysis for hydrology and pesticide supply towards the river in SWAT. *Phys. Chem. Earth* 30(8-10): 518-526.

101. Horn, A.L., G. Hörmann, and N. Fohrer. 2005. Application of a virtual watershed in academic education. *Adv. Geosci.* 5: 137-141.

102. Hotchkiss, R.H., S.F. Jorgensen, M.C. Stone, and T.A. Fontaine. 2000. Regulated river modeling for climate change impact assessment: The Missouri River. *J. Amer. Water Resour. Assoc.* 36(2): 375-386.

103. Hu, X., G.F. McIsaac, M.B. David, and C.A.L. Louwers. 2007. Modeling riverine nitrate export from an east-central Illinois watershed using SWAT. *J. Environ. Qual.* 36: 996-1005.

104. Immerzeel, W., J. Stoorvogel, and J. Antle. 2007. Can payments for ecosystem services secure the water tower of Tibet? *Agric. Syst.* Doi:10.1016/j.agsy.2007.05.005 (online; in press).

105. Jayakrishnan, R., R. Srinivasan, C. Santhi, and J.G. Arnold. 2005. Advances in the application of the SWAT model for water resources management. *Hydrol. Process.* 19(3): 749-762.

106. Jha, M., J.G. Arnold, P.W. Gassman, F. Giorgi, and R.R. Gu. 2006. Climate change sensitivity assessment on Upper Mississippi River Basin streamflows using SWAT. *J. Amer. Water Resour. Assoc.* 42(4): 997-1016.

107. Jha, M., P.W. Gassman, and J.G. Arnold. 2007. Water Quality Modeling for the Raccoon River Watershed using SWAT. *Trans. ASABE* 50(2): 479-493.

108. Jha, M., P.W. Gassman, S. Secchi, R. Gu, and J. Arnold. 2004. Effect of watershed subdivision on SWAT flow, sediment, and nutrient predictions. *J. Amer. Water Resour. Assoc..* 40(3): 811-825.

109. Jha, M., Z. Pan, E.S. Takle, and R. Gu. 2004. Impacts of climate change on streamflow in the Upper Mississippi River Basin: a regional climate model perspective. *J. Geophys. Res.* 109:D09105.

110. Kalin, L. and M.H. Hantush. 2006. Hydrologic modeling of an eastern Pennsylvania watershed with NEXRAD and rain gauge data. *J. Hydrol. Engr.* 11(6): 555-569.

111. Kamble, A.K., M.P. Tripathi, S.N. Pawar, and B.P. Sawant. 2005. Estimation of surface runoff from micro watershed using Soil and Water Assessment Tool (SWAT) model. *Indian J.Dryland Agric. Res. Develop..* 20(1): 46-56.

112. Kamble, A.M., M.P. Tripathi, and P.K. Shrivastava. 2003. Estimation of sediment yield from a micro watershed using SWAT model. *Indian J. Soil Conserv.* 31(1): 1-9.

113. Kang, M.S., S.W. Park, J.J. Lee, and K.H. Yoo. 2006. Applying SWAT for TMDL programs to a small watershed containing rice paddy fields. *Agr. Water Manage.*

79(1): 72-92.

114. Kannan, N., S.M. White, and M.J. Whelan. 2006. Predicting diffuse-source transfers of surfactants to surface waters using SWAT. *Chemosphere* 66: 1336-1345.

115. Kannan, N., S.M. White, F. Worrall, and M.J. Whelan. 2006. Pesticide modeling for a small catchment using SWAT-2000. *J. Environ. Sci. Health, Part B* 41: 1049-1070.

116. Kannan, N., S.M. White, F. Worrall, and M.J. Whelan. 2007. Sensitivity analysis and identification of the best evapotranspiration and runoff options for hydrological modeling in SWAT-2000. *J. Hydrol.* 332(3-4): 456-466.

117. Kannan, N., S.M. White, F. Worrall, and M.J. Whelan. 2007. Hydrological modelling of a small catchment using SWAT-2000—Ensuring correct flow partitioning for contaminant modeling. *J. Hyrdol.* 334(1-2): 64-72.

118. Kaur, R., O. Singh, R. Srinivasan, S.N. Das, and K. Mishra. 2004. Comparison of a subjective and a physical approach for identification of priority areas for soil and water management in a watershed – a case study of Nagwan watershed in Hazaribagh District of Jharkhand, India. *Environ. Model. Assess.* 9(2): 115-127.

119. Kaur, R., R. Srivastava, R. Betne, K. Mishra, and D. Dutta. 2004. Integration of linear programming and a watershed-scale hydrologic model for proposing an optimized land-use plan and assessing its impact on soil conservation—A case study of the Nagwan watershed in the Hazaribagh district of Jharkhand, India. *Int. J. Geogr. Inf. Sci.* 18(1): 73-98.

120. Kim, D.-S., A. Kumar, R. Parab, and M. Palmer. 2004. Simulation of atrazine discharge in the Auglaize watershed using satellite-generated images. *Bull. Environ. Contam. Toxicol.* 73: 319-325.

121. King, K.W., J.G. Arnold, and R.L. Bingner. 1999. Comparison of Green-Ampt and curve number methods on Goodwin creek watershed using SWAT. *Trans. ASAE* 42(4): 919-925.

122. King, K.W. and J.C. Balogh. 2001. Water quality impacts associated with converting

farmland and forests to turfgrass. *Trans. ASAE* 44(93): 569-576.

123. Kirsch, K., A. Kirsch, and J.G. Arnold. 2002. Predicting sediment and phosphorus loads in the Rock River Basin using SWAT. *Trans. ASAE* 45(6): 1757-1769.

124. Kovacs, A. 2006. Comparative study of two watershed scale models to calculate diffuse phosphorus pollution. *Water Sci. Technol*. 53(2): 281-288.

125. Larose, M., G.C. Heathman, L.D. Norton, and B. Engel. 2007. Hydrologic and atrazine simulation of the Cedar Creek watershed using the SWAT model. *J. Environ. Qual.* 36: 521-531.

126. Lemberg, B., J.W. Mjelde, J.R. Conner, R.C. Griffin, W.D. Rosenthal, and J.W. Stuth. 2002. An interdisciplinary approach to valuing water from brush control. *J. Amer. Water Resour. Assoc.* 38(2): 409-422.

127. Lemonds, P.J. and J.E. McCray. 2007. Modeling hydrology in a small Rocky Mountain watershed serving large urban populations. *J. Amer. Water Resour. Assoc.* 43(4): 875-887.

128. Li, X., R.B. Ambrose, and R. Araujo. 2004. Modeling mineral nitrogen export from a forest terrestrial ecosystem to streams. *Trans. ASAE* 47(3): 727-739.

129. Li, D., Y. Tian, C. Liu, and F. Hao. 2004. Impact of land-cover and climate changes on runoff of the source regions of the Yellow River. *J. Geograph. Sci*. 14(3): 330-338.

130. Limaye, A.S., .TM Boyington, J.F. Cruise, A. Bulus, and E. Brown. 2001. Macroscale hydrologic modeling for regional climate assessment studies in the southeastern United States. *J. Amer. Water Resour. Assoc.* 37(3): 709-722.

131. Lin, Z. and D.E. Radcliffe. 2006. Automatic calibration and predictive uncertainty analysis of a semidistributed watershed model. *Vadose Zone J.* 5(1): 248-260.

132. Lorz, C., M. Volk, and G. Schmidt. 2007. Considering spatial distribution and functionality of forests in a modeling framework for river basin management. *For. Ecol. Mgmt.* 248(1-2): 17-25.

133. Manguerra, H.B., and B.A. Engel. 1998. Hydrologic parameterization of watersheds for runoff prediction using SWAT. *J. Amer. Water Resour. Assoc.* 34(5): 1149-1162.

134. Mapfumo, E., D.S. Chanasyk, and W.D. Willms. 2004. Simulating daily soil water under foothills fescue grazing with the soil and water assessment tool model (Alberta, Canada). *Hydrol. Process.* 18: 2787-2800.

135. Marinov, D., L. Galbiati, G. Giordani, P. Viaroli, A. Norro, S. Bencivelli, and J.-M. Zaldívar. 2007. An integrated modeling approach for the management of clam farming in coastal lagoons. *Aquaculture.* Doi: 10.1016/j.aquaculture.2007.04.071.

136. Matamoros, D., E. Guzman, J. Bonini, and P.A. Vanrolleghem. 2005. AGNPS and SWAT model calibration for hydrologic modelling of an Ecuadorian river basin under data scarcity. In *River Basin Restoration and Management,* 71-78. A. Ostfeld and J.M Tyson, eds. London, UK: IWA Publishing.

137. Mausbach, M.J. and A.R. Dedrick. 2004. The length we go: measuring environmental benefits of conservation practices. *J. Soil Water Conserv.* 59(5): 96A-103A.

138. Menking, K.M., R.Y, Anderson, N.G. Shafike, K.H. Syed, B.D. Allen. 2004. Wetter or colder during the last glacial maximum? Revisiting the pluvial lake question in southwestern North America. *Quaternary Res.* 62(3): 280-288.

139. Menking, K.M., K.H. Syed, R.Y. Anderson, N.G. Shafike, and J.G. Arnold. 2003. Model estimates of runoff in the closed, semiarid Estancia basin, central New Mexico, USA. *Hydrolog. Sci. J.* 48(6): 953-970.

140. Migliaccio, K.W., I. Chaubey, and B.E. Haggard. 2007. Evaluation of landscape and instream modeling to predict watershed nutrient yields. *Environ. Model. Soft.* 22(7): 987-999.

141. Miller, S. N., W.G. Kepner, M.H. Mehaffey, M. Hernandez, R.C. Miller, D.C. Goodrich, K.K Devonald, D.T. Heggem, and W.P. Miller . 2002. Integrating landscape assessment and hydrologic modeling for land cover change analysis. *J. Amer. Water Resour. Assoc.* 38(4): 915-929.

142. Miller, S.N., D.J. Semmens, D.C. Goodrich, M. Hernandez, R.C. Miller, W.G. Kepner, and D.P. Guertin. 2007. The automated geospatial watershed assessment tool. *Environ. Model. Soft.* 22(3): 365-377.

143. Mishra, A., J. Froebrich, and P.W. Gassman. 2007. Evaluation of the SWAT model for assessing sediment control structures in a small watershed in India. *Trans. ASABE* 50(2): 469-478.

144. Mishra, A., S. Kar, and V.P. Singh. 2007. Prioritizing structural management by quantifying the effect of land use and land cover on watershed runoff and sediment yield. *Water Resour. Manage.* doi: 10.1007/s11269-006-9136-x (online; in press).

145. Moon, J., R. Srinivasan, and J.H. Jacobs. 2004. Stream flow estimation using spatially distributed rainfall in the Trinity River Basin, Texas. *Trans. ASAE* 47(5): 1445-1451.

146. Moriasi, D.N., J.G. Arnold, M.W. Van Liew, R.L. Binger, R.D. Harmel, and T. Veith. 2007. Model evaluation guidelines for systematic quantification of accuracy in watershed simulations. *Trans. ASABE* 50(3): 885-900.

147. Mulungu, D.M.M. and S.E. Munishi. 2007. Simiyu river catchment parameterization using SWAT model. *Phys. Chem. Earth* doi: 10.1016/j.pce.2007.07.053. (online; in press).

148. Muleta, M.K. and J.W. Nicklow. 2005. Decision support for watershed management using evolutionary algorithms. *J. Water Resour. Plan. Manage. ASCE* 131(1): 35-44.

149. Muleta, M.K. and J.W. Nicklow. 2005. Sensitivity and uncertainty anaylsis coupled with automatic calibration for a distributed watershed model. *J. Hydrol.* 306 (2005): 127-145.

150. Muleta, M.K., J.W. Nicklow, and E.G. Bekele. 2005. Sensitivity of a distributed watershed simulation model to spatial scale. *J. Hydrol. Engr.* 12(2): 163-172.

151. Muttiah, R. S. and R. A. Wurbs. 2002. Scale-dependent soil and climate variability

effects on watershed water balance of the SWAT model. *J. Hydrol*. 256 (2002): 264-285.

152. Muttiah, R. S. and R. A. Wurbs. 2002. Modeling the impacts of climate change on water supply reliabilities. *Water Int.* 27(3): 407-419.

153. Narasimhan, B. and R. Srinivasan. 2005. Development and evaluation of soil moisture deficit index (SMDI) and evapotranspiration deficit index (ETDI) for agricultural drought monitoring. *Agric. For. Meteor.* 133: 69-88.

154. Narasimhan, B., R. Srinivasan, J.G. Arnold, and M. Di Luzio. 2005. Estimation of long-term soil moisture using a distributed parameter hydrologic model and verification using remotely sensed data. *Trans. ASAE* 48(3): 1101-1113.

155. Nasr, A., M. Bruen, P. Jordan, R. Moles, G. Kiely, and P. Byrne. 2007. A comparison of SWAT, HSPF and SHETRAN/GOPC for modeling phosphorus export from three catchments in Ireland. *Water Res.* 41(5): 1065-1073.

156. Nearing, M.A., V. Jetten, C. Baffaut, O. Cerdan, A. Couturier, M. Hernandez, Y. Le Bissonnais, M.H. Nichols, J.P. Nunes, C.S. Renschler, V. Souchère, and K. van Ost. 2005. Modeling response of soil erosion and runoff to changes in precipitation and cover. *Catena* 61: 131-154.

157. Nelson, R.G., J.C. Ascough II, and M.R. Langemeier. 2005. Environmental and economic analysis of switchgrass production for water quality improvement in northeast Kansas. *J. Environ. Manage.* 79(4): 336-347.

158. Nicklow, J.W. and M.S. Muleta. 2001. Watershed management technique to control sediment yield in agriculturally dominated areas. *Water Int.* 26(3): 435-443.

159. Olivera, F., M. Valenzuela, R. Srinivasan, J. Choi, H. Cho, S. Koka, and A. Agrawal. 2006. ArcGIS-SWAT: A goedata model and GIS interface for SWAT. *J. Amer. Water Resour. Assoc.* 42(2): 295-309.

160. Osei, E., P.W. Gassman, L.M. Hauck, R. Jones, L. Beran, P.T. Dyke, D.W. Goss, J.D. Flowers, and A.M.S. McFarland. 2003. Environmental benefits and economic costs of

manure incorporation on dairy waste application fields. *J. Environ. Manage.* 68(1): 1-11.

161. Osei, E., P.W. Gassman, L.M. Hauck, S. Neitsch, R.D. Jones, J. Mcnitt, and H. Jones. 2003. Economic and environmental impacts of pasture nutrient management. *J. Range Manage.* 56: 218-226.

162. Perkins, S.P. and M. Sophocleous. 1999. Development of a comprehensive watershed model applied to study stream yield under drought conditions. *Groundwater* 37(3): 418-426.

163. Peschel, J.M., P.K. Haan, and R.E. Lacy. 2006. Influences of soil dataset resolution on hydrologic modeling. *J. Amer. Water Resour. Assoc.* 42(5): 1371-1389.

164. Peter, L., K. Rajkai, L. Pasztor, J. Szabo, and I. Sisak. 2005. Sensitivity of the SWAT model to soil organic carbon content: a Lake Balaton catchment case study. *Cereal Res. Commun.* 33(1): 297-300.

165. Peterson, J.R. and J.M. Hamlet. 1998. Hydrologic calibration of the SWAT model in a watershed containing fragipan soils. *J. Amer. Water Resour. Assoc.* 34(3): 531-544.

166. Pikounis, M., E. Varanou, E. Baltas, A. Dassaklis, and M. Mimikou. 2003. Application of the SWAT model in the Pinios River basin under different land-use scenarios. *Int. J.* 5(2): 71-79.

167. Plus, M., I. La Jeunesse, F. Bouraoui, J.-M. Zaldívar, A. Chapelle, and P. Lazure. 2006. Modelling water discharges and nitrogen inputs into a Mediterranean lagoon: Impact on the primary production. *Ecol. Model.* 193(1-2): 69-89.

168. Pohlert, T., J.A. Huisman, L. Breuer, and H.-G. Freude. 2005. Modelling of point and non-point source pollution of nitrate with SWAT in the river Dill, Germany. *Adv. Geosci.* 5: 7-12.

169. Pohlert, T., J.A. Huisman, L. Breuer, and H.-G. Freude. 2007. Integration of a detailed biogeochemical model into SWAT for improved nitrogen predictions—Model development, sensitivity, and GLUE analysis. *Ecol. Model.* 203(3-4): 215-228.

170. Prato, T., and S. Hajkowicz. 1999. Selection and sustainability of land and water resource management systems. *J. Amer. Water Resour. Assoc.* 35(4): 739-752.

171. Qi, C. and S. Grunwald. 2005. GIS-Based Hydrologic Modeling in the Sandusky Watershed Using SWAT. *Trans. ASAE* 48(1): 169-180.

172. Qiu, Z. 2005. Using multi-criteria decision models to assess the economic and environmental impacts of farming decisions in an agricultural watershed. *Rev. Agric. Econ.* 27(2): 229-244.

173. Qiu, Z., and T. Prato. 2001. Physical determinants of economic value of riparian buffers in an agricultural watershed. *J. Amer. Water Resour. Assoc.* 37(2): 295-303.

174. Qiu, Z., and T. Prato. 1998. Economic evaluation of riparian buffers in an agricultural watershed. *J. Amer. Water Resour. Assoc.* 34(4): 877-890.

175. Ramanarayanan, T., B. Narasimhan, and R. Srinivasan. 2005. Characterization of fate and transport of Isoxaflutole, a soil-applied corn herbicide, in surface water using a watershed model. *J. Agric. Food Chem.* 53(22): 8848-8858.

176. Rao, M., G. Fan, J. Thomas, G. Cherian, V. Chudiwale, and M. Awawdeh. 2006. A web-based GIS decision support system for managing and planning USDA's Conservation Reserve Program (CRP). *Environ. Model. Soft.* 22(9): 1270-1280.

177. Renschler, C.S. and T. Lee. 2005. Spatially distributed assessment of short- and long-term impacts of mutiple best management practices in agricultural watersheds. *J. Soil Water Conserv.* 60(6): 446-455.

178. Richards, C.E., C.L. Munster, D.M. Vietor, J.G. Arnold, and R. White. 2007. Assessment of a turfgrass sod best management practice on water quality in a suburban watershed. *J. Environ. Manage.* doi: 10.1016/j.jenvman.2006.12.039 (online in process).

179. Ritschard, R. L., J.F. Cruise, and L.U. Hatch. 1999. Spatial and temporal analysis of agricultural water requirements in the Gulf Coast of the United States. *J. Amer. Water*

Resour. Assoc. 35(6): 1585-1596.

180. Romanowicz, A.A., M. Vanclooster, M. Rounsevell, and I. La Junesse. 2005. Sensitivity of the SWAT model to the soil and land use data parametrisation: a case study in the Thyle catchment, Belgium. *Ecol. Model.* 187: 27-39.

181. Rosenberg, N.J., R.A. Brown, R.C. Izaurralde, and A.M. Thomson. 2003. Integrated assessment of Hadley Centre (HadCM2) climate change projections in agricultural productivity and irrigation water supply in the conterminous United States: I. climate change scenarios and impacts on irrigation water supply simulated with the HUMUS model. *Agric. For. Meteor.* 117(1-2): 73-96.

182. Rosenberg, N.J., D.L. Epstein, D. Wang, L. Vail, R. Srinivasan, and J.G. Arnold. 1999. Possible impacts of global warming on the hydrology of the Ogallala aquifer region. *Clim. Change* 42(4): 677-692.

183. Rosenthal, W.D., and D.W. Hoffman. 1999. Hydrologic modeling/GIS as an aid in locating monitoring sites. *Trans. ASAE* 42(6): 1591-1598.

184. Rosenthal, W.D., R. Srinivasan, and J.G. Arnold. 1995. Alternative river management using a linked GIS-hydrology model. *Trans. ASAE* 38(3): 783-790.

185. Saleh, A., J.G. Arnold, P.W. Gassman, L.W. Hauck, W.D. Rosenthal, J.R. Williams, and A.M.S. McFarland. 2000. Application of SWAT for the upper north Bosque watershed. *Trans. ASAE* 43(5): 1077-1087.

186. Saleh, A. and B. Du. 2004. Evaluation of SWAT and HSPF within BASINS program for the Upper North Bosque River watershed in central Texas. *Trans. ASAE* 47(4): 1039-1049.

187. Salvetti, R., A. Azzellino, and R. Vismara. 2006. Diffuse source apportionment of the Po river eutrophying load to the Adriatic sea: Assessment of Lombardy contribution to Po river nutrient load apportionment by means of an integrated modelling approach. *Chemosphere* 65(11): 2168-2177.

188. Santelman, M.V., D. White, K. Freemark, J.I. Nassauer, J.M. Eilers, K.B. Vaché, B.J.

Danielson, R.C. Corry, M.E. Clark, S. Polasky, R.M. Cruse, J. Sifneos, H. Rustigian, C. Coiner, J. Wu, and D. Debinski. 2004. Assessing alternative futures for agriculture in Iowa, U.S.A. *Landscape Ecol.* 19: 357-374.

189. Santhi, C., J.G. Arnold, J.R. Williams, W.A. Dugas, and L. Hauck. 2001. Validation of the SWAT model on a large river basin with point and nonpoint sources. *J. Amer. Water Resour. Assoc.* 37(5): 1169-1188.

190. Santhi, C., J.G. Arnold, J.R. Williams, W.A. Dugas, and L. Hauck. 2001. Application of a watershed model to evaluate management effects on point and nonpoint source pollution. *Trans. ASAE* 44(6): 1559-1570.

191. Santhi, C., R.S. Muttiah, J.G. Arnold, and R. Srinivasan. 2005. A GIS-Based regional planning tool for irrigation demand assessment and savings using SWAT. *Trans. ASAE* 48(1): 137-147.

192. Santhi, C., R. Srinivasan, J.G. Arnold, and J.R. Williams. 2006. A modeling approach to evaluate the impacts of water quality management plans implemented in a watershed in Texas. *Environ. Model. Soft.* 21(8): 1141-1157.

193. Schomberg, J.D., G. Host, L.B. Johnson, and C. Richards. 2005. Evaluating the influence of landform, surficial geology, and land use on streams using hydrologic simulation modeling. *Aqua. Sci.* 67(4): 528-540.

194. Schuol, J. and K.C. Abbaspour. 2006. Calibration and uncertainty issues of a hydrological model (SWAT) applied to West Africa. *Adv. Geosci.* 9: 137-143.

195. Schuol, J. and K.C. Abbaspour. 2006. Using monthly weather statistics to generate daily data in a SWAT model application to West Africa. *Ecol. Model.* 201(3-4): 301-311.

196. Secchi, S., P.W. Gassman, M. Jha, L. Kurkalova, H.H. Feng, T. Campbell, and C.L. Kling. 2007. The cost of cleaner water: Assessing agricultural pollution reduction at the watershed scale. *J. Soil Water Conserv.* 62(1): 10-21.

197. Singh, Jaswinder, H. Vernon Knapp, J. G. Arnold, and Misganaw Demissie. 2005.

Hydrological Modeling of the Iroquois River watershed using HSPF and SWAT. *J. Amer. Water Resour. Assoc.* 41(2): 343-360.

198. Sohrabi, T.M., A. Shirmohammadi, T.W. Chu, H. Montas, and A.P. Nejadhashemi. 2003. Uncertainty analysis of hydrologic and water quality predictions for a small watershed using SWAT2000. *Environ. Forensics*. 4(4): 229-238.

199. Sophocleous, M.A., J.K. Koelliker, R.S. Govindaraju, T. Birdie, S.R. Ramireddygari, and S.P. Perkins. 1999. Integrated numerical modeling for basin-wide water management: The case of the Rattlesnake Creek basin in south-central Kansas. *J. Hydrol.* 214: 179-196.

200. Sophocleous, M. and S. P. Perkins 2000. Methodology and Application of Combined Watershed and Ground-water Models in Kansas. *J. Hydrol.* 236 (3-4): 185-201.

201. Spruill, C.A., S.R. Workman, and J.L. Taraba. 2000. Simulation of daily and monthly stream discharge from small watersheds using the SWAT model. *Trans. ASAE* 43(6): 1431-1439.

202. Srinivasan, M.S., Pierre Gerald-Marchant, Tamie L. Veith, William J. Gburek, and Tammo S. Steenhuis. 2005. Watershed scale modeling of critical source areas of runoff generation and phosphorus transport. *J. Amer. Water Resour. Assoc.* 41(2): 361-375.

203. Srinivasan, R. and J.G. Arnold. 1994. Integration of a basin-scale water quality model with GIS. *Water Resour. Bull.* (30)3: 453-462.

204. Srinivasan, R.S., J.G. Arnold, and C.A. Jones. 1998. Hydrologic modeling of the United States with the soil and water assessment tool. *Int. J. Water Resour. Dev.* 14(3): 315-325.

205. Srinivasan, R., J.G. Arnold, and R.S. Muttiah. 1995. Plant and hydrologic simulation at the continental scale using SWAT and GIS. *AIH Hydrol. Sci. Tech.* 11(1-4): 160-168.

206. Srinivasan, R., T.S. Ramanarayanan, J.G. Arnold, and S.T, Bednarz. 1998. Large area

hydrologic modeling and assessment part II: model application. *J. Amer. Water Resour. Assoc.* 34(1): 91-101.

207. Srivastava, P., J.N. McNair, and T.E. Johnson. 2006. Comparison of process-based and artificial neural network approaches for streamflow modeling in an agricultural watershed. *J. Amer. Water Resour. Assoc.* 42(2): 545-563.

208. Stewart, G.R., C.L. Munster, D.M. Vietor, J.G. Arnold, A.M.S. McFarland, R. White, and T. Provin. 2006. Simulating water quality improvements in the Upper North Bosque River Watershed due to phosphorus export through turfgrass sod. *Trans. ASABE* 49(2): 357-366.

209. Steinhardt, U. and M. Volk. 2003. Meso-scale landscape analysis based on landscape balance investigations: problems and hierarchical approaches for their resolution. *Ecol. Model.* 168(3): 251-265.

210. Stone, M.C., R.C. Hotchkiss, and L.O. Mearnes. 2003. Water yield responses to high and low spatial resolution climate change scenarios in the Missouri River Basin. *Geophys. Res. Lett.*, 30(4):1186,doi:10.1029/2220GLO16122.

211. Stone, M.C., R.H. Hotchkiss, C.M. Hubbard, T.A. Fontaine, L.O. Mearns, and J.G. Arnold. 2001. Impacts of climate change on Missouri river basin water yield. *J. Amer. Water Resour. Assoc.* 37(5): 1119-1130.

212. Stonefelt, M. D., T.A. Fontaine, and R.H. Hotchkiss. 2000. Impacts of climate change on water yield in the upper wind river basin. *J. Amer. Water Resour. Assoc.* 36(2): 321-336.

213. Sun, H. and P.S. Cornish. 2005. Estimating shallow groundwater recharge in the headwaters of the Liverpool Plains using SWAT. *Hydrol. Process.* 19(3): 795-807.

214. Sun, H. and P.S. Cornish. 2006. A catchment-based approach to recharge estimation in the Liverpool Plains, NSW, Australia. *Aust. J. Agric. Res.* 57: 309-320.

215. Takle, E.S., M. Jha, and C.J. Anderson. Hydrological cycle in the Upper Mississippi River basin: 20th century simulations by multiple GCMs. *Geophys. Res. Lett.* 32:

L18407, doi:10.1029/2005GL023630.

216. Thomson, A.M., R.A. Brown, N.J. Rosenberg, R.C. Izaurralde, D.M. Legler, and R. Srinivasan. 2003. Simulated impacts of El Nino/southern oscillation on United States water resources. *J. Amer. Water Resour. Assoc.* 39(1): 137-148.

217. Thomson, Allison, Robert A. Brown, Norman J. Rosenberg, Raghavan Srinivasan, and R. Cesar Izaurralde. 2005. Climate change impacts for the conterminous USA: An integrated assessment Part 4: Water Resources. *Clim. Change* 69: 67-88.

218. Thomson, Allison M., Norman J. Rosenberg, R. Cesar Izaurralde, and Robert A. Brown. 2005. Climate change impacts for the conterminous USA: An integrated assessment Part 2: Models and Validation. *Clim. Change* 69: 27-41.

219. Thomson, Allison M., Norman J. Rosenberg, R. Cesar Izaurralde, and Robert A. Brown. 2005. Climate change Impacts for the conterminous USA: An integrated assessment Part 5: Irrigated agriculture and national grain crop production. *Clim. Change* 69: 89-105.

220. Tolson, B.A. and C.A. Shoemaker. 2007. Cannonsville Reservoir Watershed SWAT2000 model development, calibration and validation. *J. Hydrol.* 337(1-2): 68-86.

221. Tolson, B.A. and C.A. Shoemaker. 2007. Dynamically dimensioned search algorithm for computationally efficient watershed model calibration. *Water Resour. Res*. 43, W01413, doi: 10.1029/2005WR004723.

222. Tong, S.T.Y. and S. Naramngam. 2007. Modeling the impacts of farming practices on water quality in the Little Miami River basin. *Environ. Manage.* 39(6): 853-866.

223. Tripathi, M.P., R.K. Panda, and N.S. Raghuwanshi. 2003. Identification and Prioritisation of Critical Sub-watersheds for Soil Conservation Management using the SWAT Model. *Biosyst. Engr.* (2003) 85(3):365-379, doi:10.1016/S1537-5110(03)00066-7.

224. Tripathi, M.P., R.K. Panda, and N.S. Raghuwanshi. 2005. Development of effective

management plan for critical watersheds using SWAT model. *Hydrol. Process.* 19(3): 809-826.

225. Tripathi, M.P., R.K. Panda, N.S. Raghuwanshi, and R. Singh. 2004. Hydrological modelling of a small watershed using generated rainfall in the soil and water assessment tool model. *Hydrol. Process.* 18: 1811-1821.

226. Tripathi, M.P., N.S. Raguwanshi, and G.P. Rao. 2006. Effect of watershed subdivision on simulation of water balance components. *Hydrol. Process.* 20(5): 1137-1156.

227. Turpin, N., P. Bontems, G. Rotillon, I. Bärlund, M. Kaljonen, S. Tattari, F. Feichtinger, P. Strauss, R. Haverkamp, M. Garnier, A. Lo Porto, G. Benigni, A. Leone, M. Nicoletta Ripa, O.M. Eklo, E. Romstad, T. Bioteau, F. Birgand, P. Bordenave, R. Laplana, J.M. Lescot, L. Piet, and F. Zahm. 2005. AgriBMPWater: Systems approach to environmentally acceptable farming. *Environ. Model. Soft.* 20(2): 187-196.

228. Vaché, K.B., J.M. Eilers, and M.V. Santelman. 2002. Water quality modeling of alternative agricultural scenarios in the U.S. Corn Belt. *J. Amer. Water Resour. Assoc.* 38(2): 773-787.

229. van Griensven, A. and T. Meixner. 2006. Methods to quantify and identify the sources of uncertainty for river basin water quality models. *Water Sci. Tech.* 53(1): 51-59.

230. van Griensven, A., L. Breuer, M. Di Luzio, V. Vandenberghe, P. Goethals, T. Meixner, J. Arnold, and R. Srinivasan. 2006. Environmental and ecological hydroinformatics to support the implementation of the European Water Framework Directive for river basin management. *J. Hydroinform.* 8(4): 239-252.

231. van Griensven, A., T. Meixner, S. Grunwald, T. Bishop, M. Diluzio, and R. Srinivasan. 2006. A global sensitivity analysis tool for the parameters of multi-variable catchment models. *J. Hydrol.* 324: 10-23.

232. Van Liew, M.W., J.G. Arnold, and D.D. Bosch. 2005. Problems and potential of autocalibrating a hydrologic model. *Trans. ASABE* 48(3): 1025-1040.

233. Van Liew, M.W., J.G. Arnold, and J.D. Garbrecht. 2003. Hydrologic simulation on

agricultural watersheds: choosing between two models. *Trans. ASAE* 46(6): 1539-1551.

234. Van Liew, M.W. and J. Garbrecht. 2003. Hydrologic simulation of the Little Washita River experimental watershed using SWAT. *J. Amer. Water Resour. Assoc.* 39(2): 413-426.

235. Van Liew, M.W., J.D. Garbrecht, and J.G. Arnold. 2003. Simulation of the impacts of flood retarding structures on streamflow for a watershed in southwestern Oklahoma under dry, average, and wet climatic conditions. *J. Soil Water Conserv.* 58(6): 340-348.

236. Van Liew, M.W., T.L. Veith, D.D. Bosch, and J.G. Arnold. 2007. Suitability of SWAT for the Conservation Effects Assessment Project: A comparison on USDA ARS watersheds. *J. Hydrol. Engr.* 12(2): 173-189.

237. Varanou, E, E. Gkouvatsou, E. Baltas, and M. Mimikou. 2002. Quantity and quality integrated catchment modelling under climatic change with use of Soil and Water Assessment Tool model. *J. Hydrol. Engr.* 7, 228

238. Vazquez-Amabile, G.G. and B. A. Engel. 2005. Use of SWAT to compute groundwater table depth and streamflow in the Muscatatuck River watershed. *Trans. ASAE.* 48(3): 991-1003.

239. Vazquez-Amabile, G.G., B.A. Engel., and D.C. Flanagan. 2006. Modelng and risk analysis of nonpoint-source pollution caused by atrazine using SWAT. *Trans. ASABE* 49(3): 667-678.

240. Veith, T.L., A.N. Sharpley, J.L. Weld, and W.J. Giburek. 2005. Comparison of measured and simulated phosphorus losses with indexed site vulnerability. *Trans. ASAE* 48(2): 557-565.

241. Volk, M., J. Hirschfeld, G. Schmidt, C. Bohn, A. Dehnhardt, S. Liersch, and L. Lymburner. 2007. A SDSS-based ecological-economic modeling approach for integrated river basin management on different scale levels – the project FLUMAGIS. *Water Resour. Manage.* doi: 10.1007/s11269-007-9158-z. (online; in press).

242. von Stackelberg, N.O., G.M. Chescheir, R.W. Skaggs, and D.K. Amatya. 2007. Simulation of the hydrologic effects of afforestation in the Tacuarembó River basin, Uruguay. *Trans. ASABE* 50(2): 455-468.

243. Wagner, R.C., T.A. Dillaha, and G. Yagow. 2007. An assessment of the reference watershed approach for TMDLs with biological impairments. *Water Air Soil Poll.* 181(1-4): 341-354.

244. Wang, X. and A.M. Melesse. 2006. Effects of STATSGO and SSURGO as inputs on SWAT model's snowmelt simulation. *J. Amer. Water Resour. Assoc.* 42(5): 1217-1236.

245. Wang, X. and A.M. Melesse. 2005. Evaluation of the SWAT model's snowmelt hydrology in a northwestern Minnesota watershed. *Trans. ASAE* 48(4): 1359-1376.

246. Wang, X., A.M. Melesse, and W. Yang. 2006. Influences of potential evapotranspiration estimation methods on SWAT's hydrologic simulation in a northwestern Minnesota watershed. *Trans. ASABE* 49(6): 1755-1771.

247. Watson, B.M., R. Srikanthan, S. Selvalingam, and M. Ghafouri. 2005. Evaluation of three daily rainfall generation models for SWAT. *Trans. ASAE* 48(5): 1697-1711.

248. Weber, A., N. Fohrer and D. Moller. 2001. Long-term land use changes in a mesocale watershed due to socio-economic factors – effects on landscape structures and functions. *Ecol. Model.* 140: 125-140.

249. White, K.L. and I. Chaubey. 2005. Sensitivity analysis, calibration, and validations for a multisite and multivariable SWAT model. *J. Amer. Water Resour. Assoc.* 41(5): 1077-1089.

250. Whittaker, G. 2005. Application of SWAT in the evaluation of salmon habitat remediation policy. *Hydrol. Process.* 19(3): 839-848.

251. Whittaker, G.R. 2004. Use of a Beowulf cluster for estimation of risk using SWAT.

Agron. J. 96: 1495-1497.

252. Whittaker, G., R. Fare, R. Srinivasan, and D.W. Scott. 2003. Spatial evaluation of alternative nonpoint nutrient regulatory instruments. *Water Resour. Res.* 39(4). 1079, doi:10.1029/2001 WR001119, 2003.

253. Wollmuth, J.C. and J. W. Eheart. 2000. Surface water withdrawal allocation and trading systems for traditionally riparian areas. *J. Amer. Water Resour. Assoc.* 36(2): 293-303.

254. Wu, K. and C. Johnston. 2007. Hydrologic response to climatic variability in a Great Lakes Watershed: A case study with the SWAT model. *J. Hydrol.* 337(1-2): 187-199.

255. Wu, J. and K. Tanaka. 2005. Reducing nitrogen runoff from the Upper Mississippi River Basin to control hypoxia in the Gulf of Mexico: Easements or taxes? *Marine Resour. Econ.* 20: 121-144.

256. Wu, K. and J.Y. Xu. 2006. Evaluation of the applicability of the SWAT model for coastal watersheds in southeastern Louisiana. *J. Amer. Water Resour. Assoc.* 42(5): 1247-1260.

257. Yang, J., P. Reichert, K.C. Abbaspour, and H. Yang. 2007. Hydrological Modelling of the Chaohe Basin in China: Statistical Model Formulation and Bayesian Inference. *J. Hydrol.* 340(3-4): 167-182.

258. Yang, W., C. Sheng, and P. Voroney. 2005. Spatial targeting of conservation tillage to improve water quality and carbon retention benefits. *Can. J. Agric. Econ.* 53(4): 477-500.

259. Yu, G., B. Xue, G. Lai, F. Gui, and X. Liu. 2007. A 200-year historical modeling of catchment nutrient changes in Taihu basin, China. *Hydrobiologia.* 581: 79-87.

260. Zhang, X., R. Srinivasan, and F. Hao. 2007. Predicting hydrologic response to climate change in the Luohe River basin using the SWAT model. *Trans. ASABE* 50(3): 901-910.

ESWAT Articles

261. Vandenberghe, V., A. van Griensven and W. Bauwens. 2002. Detection of the most optimal measuring points for water quality variables: application to the river water quality model of the river Dender in ESWAT, *Water Sci. Tech.* 46(3): 1-7.

262. Vandenberghe V., A. van Griensven and W. Bauwens. 2001. Sensitivity analysis and calibration of the parameters of ESWAT: Application to the river Dender. *Water Sci. Tech.* 43(7): 295-301.

263. Vandenberghe, V., A. van Griensven, W. Bauwens, and P.A. Vanrolleghem. 2005. Propagation of uncertainty in diffuse pollution into water quality predictions: application to the River Dender in Flanders, Belgium. *Water Sci. Tech.* 51(3): 347-354.

264. Vandenberghe, V., A. van Griensven, and P.A. Vanrolleghem. 2007. Evaluation of uncertainty propagation into river water quality predictions to guide future monitoring campaigns. *Environ. Model. Soft.* 22(5): 725-732.

265. van Griensven, A. and W. Bauwens. 2005. Application and evaluation of ESWAT on the Dender basin and Wister Lake basin. *Hydrol. Process.* 19(3): 827-838.

266. van Griensven, A., and W. Bauwens. 2003. Concepts for river water quality processes for an integrated river basin modelling. *Water Sci. Tech.* 48(3): 1-8.

267. van Griensven, A., and W. Bauwens. 2003. Multiobjective autocalibration for semidistributed water quality models. *Water Resour. Res.* 39(12): 1348, doi:10.1029/2003WR002284, 2003.

268. van Griensven, A., and W. Bauwens. 2001. Integral water quality modeling of catchments. *Water Sci. Tech.* 43(7): 321-328.

269. van Griensven A., A. Francos and W. Bauwens. 2002. Sensitivity analysis and auto-calibration of an integral dynamic model for river water quality. *Water Sci. Tech.* 45(9): 325-332.

SWAT-G Articles

270. Eckhardt, K. and J.G. Arnold. 2001. Automatic calibration of a distributed catchment model. *J. Hydrol.* (251)1-2 (2001): 103-109.

271. Eckhardt, K., L. Breuer, and H.-G. Frede. 2003. Parameter uncertainty and the significance of simulated land use change effects. *J. Hydrol.* 273(2003): 164-176.

272. Eckhardt, K., N. Fohrer, and H.-G. Frede. 2005. Automatic model calibration. *Hydrol. Process.* 19(3): 651-658.

273. Eckhardt, K., S. Haverkamp, N. Fohrer, and H.-G. Frede. 2002. SWAT-G, a version of SWAT99.2 modified for application to low mountain range catchments. *Phys. Chem. Earth* 27 (9-10): 641-644.

274. Eckhardt, K. and U. Ulbrich. 2003. Potential impacts of climate change on groundwater recharge and streamflow in a central European low mountain range. *J. Hydrol.* 284(1-4): 244-252.

275. Fohrer, N., S. Haverkamp, K. Eckhardt, and H.-G. Frede. 2001. Hydrologic response to land use changes on the catchment scale. *Phys. Chem. Earth* 26(7-8): 577-582.

276. Fohrer, N., S. Haverkamp, and H.-G. Frede. 2005. Assessment of the effects of land use patterns on hydrologic landscape functions: development of sustainable land use concepts for low mountain range areas. *Hydrol. Process.* 19(3): 659-672.

277. Fohrer, N., D. Möller, and N. Steiner. 2002. An interdisciplinary modelling approach to evaluate the effects of land use change. *Phys. Chem. Earth* 27(9-10): 655-662.

278. Frede, H.-G., M. Bach, N. Fohrer, and L. Breuer. 2002. Interdisciplinary modeling and the significance of soil functions. *J. Plant Nutr. Soil Sci*. 165 (4): 460-467.

279. Huisman, J.A., L. Breuer, and H.G. Frede. 2004. Sensitivity of simulated hydrological fluxes towards changes in soil properties in response to land use change. *Phys. Chem. Earth* 29(11-12): 749-758.

280. Lenhart, T., K. Eckhardt, N. Fohrer and H.-G. Frede. 2002. Comparison of two

different approaches of sensitivity analysis. *Phys. Chem. Earth* 27 (2002): 645-654.

281. Lenhart, T., N. Fohrer, and H.-G. Frede. 2003. Effects of land use changes on the nutrient balance in mesoscale catchments. *Phys. Chem. Earth* 28(33-36): 1301-1309.

282. Lenhart, T., A. Van Rompaey, A. Steegen, N. Fohrer, H.-G. Frede, and G. Govers. 2005. Considering spatial distribution and deposition of sediment in lumped and semi-distributed models. *Hydrol. Process.* 19(3): 785-794.

SWIM Articles

283. Habeck, A. V. Krysanova, and F. Hattermann. 2005. Integrated analysis of water quality in a mesoscale lowland basin. *Adv. Geosci.* 5: 13-17.

284. Hattermann, F.F., M. Wattenbach, V. Krysanova, and F. Wechsburg. 2005. Runoff simulations on the macroscale with the ecohydrological model SWIM in the Elbe catchment—validation and uncertainty analysis. *Hydrol. Process.* 19(3): 693-714.

285. Hatterman, F.F, V. Kyrsanova, A. Habeck, and A. Bronstert. 2006. Integrating wetlands and riparian zones in river basin modeling. *Ecol. Model.* 199(4): 379-392.

286. Hatterman, F., V. Kyrsanova, F. Wechsung, and M. Wattenbach. 2004. Integrating groundwater dynamics in regional hydrological modelling. *Environ. Model. Soft.* 19(11): 1039-1051.

287. Krysanova, V. and U. Haberlandt. 2002. Assessment of nitrogen leaching from arable land in large river basins Part I: Simulation experiments using a process-based model. *Ecol. Model.* 150: 255-275.

288. Krysanova, V., F. Hattermann, and A. Habeck. 2004. Expected changes in water resources availability and water quality with respect to climate change in the Elbe River basin (Germany). *Nordic Hydrol.* 36(4-5): 321-333.

289. Krysanova, V., F. Hatterman, and F. Wechsung. 2005. Development of the ecohydrological model SWIM for regional impact studies and vulnerability assessment. *Hydrol. Process.* 19(3): 763-783.

290. Krysanova, V., F. Hatterman, and F. Wechsung. 2007. Implications of complexity and uncertainty for integrated modelling and impact assessment in river basins. *Environ. Model. Soft.* 22(5): 701-709.

291. Krysanova, V., D.-I. Müller-Wohlfeil, and A. Becker. 1998. Development and test of a spatially distributed hydrological/water quality model for mesoscale watersheds. *Ecol. Model.* 106 (1998): 261-289.

292. Wattenbach, M., F. Hatterman, R. Weng, F. Wechsung, V. Krysanova, and F. Badeck. 2005. A simplified approach to implement forest eco-hydrological properties in regional hydrological modelling. *Ecol. Model.* 187(1): 49-50.

Review Papers that discuss SWAT and one or more other models

293. Benham, B.L., C. Baffaut, R.W. Zeckoski, K.R. Mankin, Y.A. Pachepsky, A.M. Sadeghi, K.M. Brannan, M.L. Soupir, and M.J. Habersack. 2006. Modeling bacteria fate and transport in watershed models to support TMDLs. *Trans. ASABE* 49(4): 987-1002.

294. Borah, D.K. and M. Bera. 2004. Watershed-scale hydrologic and nonpoint-source pollution models: review of applications. *Trans. ASAE* 47(3): 789-803.

295. Borah, D.K. and M. Bera. 2003. Watershed-scale hydrologic and nonpoint-source pollution models: review of mathematical bases. *Trans. ASAE* 46(6): 1553-1566.

296. Borah, D.K., G. Yagow, A. Saleh, P.L. Barnes, W. Rosenthal, E.C. Krug, and L.M. Hauck. 2006. Sediment and nutrient modeling for TMDL development and implementation. *Trans. ASABE* 49(4): 967-986.

297. Hörmann, G., A. Horn, and N. Fohrer. 2005. The evaluation of land-use options in mesoscale catchments: Prospects and limitations of eco-hydrological models. *Ecol. Model.* 187: 3-14.

298. Horn, A.L., F.J. Rueda, G. Hörmann, and N. Fohrer. 2004. Implementing river water quality modelling issues in mesoscale watersheds for water policy demands—an

overview on current concepts, deficits, and future tasks. *Phys. Chem. Earth* 29(11-12): 725-737.

299. Jamieson, R., R. Gordon, D. Joy, and H. Lee. 2004. Assessing microbial pollution of rural surface waters: A review of current watershed-scale modeling approaches. *Agric. Water Mgmt.* 70(1): 1-17.

300. Narula, K.K., N.K. Bansal, and A.K. Gosain. 2002. Hydrological sciences and recent advances: a review. *TIDEE* 1(2): 71-93.

301. Shepherd, B., D. Harper, and A. Millington. 1999. Modelling catchment-scale nutrient transport to watercourses in the U.K. *Hydrobiologia* 395-396: 227-237.

302. Shirmohammadi, A., I. Chaubey, R.D. Harmel, D.D. Bosch, R. Muñoz-Carpena, C. Dharmasri, A. Sexton, M. Arabi, M.L. Wolfe, J. Frankenberger, C. Graff, and T.M. Sohrabi. 2006. Uncertainty in TMDL models. *Trans. ASABE* 49(4): 1033-1049.

303. Wauchope, R.D., L.R. Ahuja, J.G. Arnold, R. Bingner, R. Lowrance, M.T. Van Genuchten, and L.D. Adams. 2002. Software for pest management science: computer models and databases for the U.S. Department of Agriculture – Agricultural Research Service. *Pest Manage. Sci.* 59(6-7): 691-698.

304. Williams, J.R. and J.G. Arnold. 1997. A system of erosion-sediment yield models. *Soil Tech.* 11: 43-55.

SWAT or modified SWAT articles published in other languages

305. Fohrer, N., K. Eckhardt, S. Haverkamp and H.-G. Frede. 1999. Effects of land use change on the water balance of a rural watershed in a peripheral region. *Zeitschrift für Kulturtechnik und Landentwicklung,* 40: 202-206. **(in German).**

306. Gholami, S. 2003. The simulation of daily sediment yield by using distributed SWAT model in mountainous catchments (Amameh Catchments). *Pajouhesh va Sazandegi. In Natural Resources*. 59: 28-33. **(in Persian)**.

307. Hernandez, A.J., S. Velasquez, F. Jimenez, and S. Rivera. 2005. Land use and water

yield dynamics in the Guacerique River watershed, Tegucigalpa, Honduras. *Recursos Naturales y Ambiente*. 45: 21-27. **(in Spanish)**.

308. Hu, T.A., S.T. Cheng, H.F. Jia, H.X. Zhang, B. Tan, and J. Zhao. 2003. Non-point sources of a small watershed in Upper Yuan River: experimental design and primary data analysis. *Journal of Agro-Environment Science*. 22(4): 442-445. **(in Chinese)**.

309. Huang, Q. and W. Zhang. 2004. Improvement and application of GIS-based distributed SWAT hydrological modeling on high altitude, cold, semi-arid catchment of Heihe river basin, China. *Journal of Nanjing Forestry University (Natural Sciences Edition)*. 28(2): 22-26. **(in Chinese)**.

310. Jiao, F., B.Q. Qin, and W.Y. Huang. 2003. Management of water environment in small watershed with Hufu town of Yixing city as example. *China Environmental Science*. 23(2): 220-224. **(in Chinese)**.

311. Möller, D., N. Fohrer, and N. Steiner. 2002. Quantification of landscape multifunctionality in agriculture and forestry. *Berichte Über Landwirtschaft*, 80 (3): 393-418. **(in German)**.

312. Torres-Benites, E., D.S. Fernandez-Reynoso, J.L. Oropeza-Mota, and E. Mejia-Saenz. 2004. Calibration of the hydrologic model SWAT in the watershed "El Tejocote", Atlacomulco, State of Mexico. *Terra*. 22(4): 437-444. **(in Spanish)**.

313. Torres-Benites, E., E. Mejía-Sáenz, J. Cortés-Becerra, E. Palacios-Vélez, and A. Exebio-García. 2005. Adaption of a hydrological simulation model to the Rio Laja watershed, Guanajuato, México. *Agrociencia*. 39: 481-490 **(in Spanish; includes English translation)**.

314. Xin, C., C. Xu, Q. HuaJiao, Z. WanBin, and L. GuoBin. 2003. Case study of using computerized simulation model in land-use research on Loess Plateau. *Trans. Chinese Soc. Agric. Engr.*. 19(4): 295-298. **(in Chinese)**.

315. YunSheng, Z., Z. ZhiYuan, and L. Shuo. 2005. GIS-aided computer simulation of chemical composition of runoff in Lianshui Basin, Jiangxi Province. *Acta Pedologica Sinica*. 42(4): 559-569. **(in Chinese)**.

Papers describing processes, models, techniques, or data that contributed to SWAT or support SWAT Applications

316. Allen, P.M., J.G. Arnold, and E. Jakubowski. 1999. Prediction of stream channel erosion potential. *Environ. Engr. Geosci.* 5(3): 339-351.

317. Allen, P.M., J.G. Arnold, and E. Jakubowski. 1997. Design and testing of a simple submerged jet device for field determination of soil erodibility. *Environ. Engr. Geosci.* 3(4): 579-584.

318. Allen, P.M., J.G. Arnold, and W. Skipworth. 2002. Erodibility of urban bedrock and alluvial channels, North Texas. *J. Amer. Water Resour. Assoc.* 38(5): 1477-1492.

319. Arnold, J.G., and P.M. Allen. 1999. Automated methods for estimating baseflow and groundwater recharge from stream flow records. *J. Amer. Water Resour. Assoc.* 35(2): 411-424 .

320. Arnold, J.G., Allen, P.M. and G. Bernhardt. 1993. A comprehensive surface-ground water flow model. *J. Hydrol.* 142(1993): 47-69.

321. Arnold, J.G., P.M. Allen, R.S. Muttiah, and G. Bernhardt. 1995. Automated base flow separation and recession analysis techniques. *Groundwater* 33(6): 1010-1018.

322. Arnold, J.G. and J.R. Williams. 1987. Validation of SWRRB-- Simulator for water resources in rural basins. *J. Water Resour. Plan. Manage. ASCE* 113:(2): 243-256.

323. Arnold, J.G., J.R. Williams, and D.A. Maidment. 1995. Continuous-time water and sediment-routing model for large basins. *J. Hydraul. Engr., ASCE* 121(2): 171-183.

324. Breuer, L., K. Eckhardt, and H.-G. Frede. 2003. Plant parameter values for models in temperate climates. *Ecol. Model.* 169 (2003): 237-293.

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

326. Leonard, R.A., W.G. Knisel, and D.A. Still. 1987. GLEAMS: Groundwater loading effects of agricultural management systems. *Trans. ASAE* 30: 1403-1418.

327. Williams, J. R. 1990. The erosion productivity impact calculator (EPIC) model: a case history. *Phil. Trans. R. Soc. Lond.* 329: 421-428.

328. Williams, J.R., C.A. Jones, and P.T. Dyke. 1984. A modeling approach to determining the relationship between erosion and soil productivity. *Trans. ASAE* 27(1): 129-144.

329. Williams, J.R., C.A. Jones, J.R. Kiniry, and D.A. Spanel. 1989. The EPIC crop growth model. *Trans. ASAE* 32(2): 497-511.