

- Bevelhimer, M.S., 2001. A bioenergetics model for white sturgeon *Acipenser transmontanus*: assessing differences in growth and reproduction among Snake River reaches. *Journal of Applied Ichthyology*, 18: 550-556.
- Bevelhimer, M.S. and Adams, S.M., 1993. A bioenergetic analysis of diel vertical migration by Kokanee salmon, (*Oncorhynchus nerka*). *Canadian Journal of Fisheries and Aquatic Sciences*, 50: 2336-2349.
- Cardwell, H., H.I. Jager, and M.J. Sale. 1996. Designing instream flows to satisfy fish and human water needs. *ASCE Journal of Water Resources Planning and Management* 122(5): 356-363.
- Chambers, R. C., K. A. Rose, and J. A. Tyler. 1995. Recruitment and recruitment processes of winter flounder, *pleuronectas americanus* at different latitudes: implications of an individual-based simulation model. *Netherlands Journal of Sea Research* 34(1-3):19-43.
- Clark, D.A. and K.A. Rose. 1997. An individual-based modeling analysis of management strategies for enhancing brook trout populations in southern Appalachian streams. *N. Am. J. Fish. Manage.* 17(1): p. 54-76.
- Clark, M.E. and K.A. Rose. 1997 Individual-based model of stream-resident rainbow trout and brook char: Model description, corroboration, and effects of sympatry and spawning season duration. *Ecol. Model.* 94(2-3): p. 157-175.
- Clark, M.E. and K.A. Rose. 1997. Factors affecting competitive dominance of rainbow trout over brook trout in southern Appalachian streams: Implications of an individual-based model. *Trans. Am. Fish. Soc.* 126(1): p. 1-20.
- Clark, M.E., K.A. Rose, D.A. Levine, and W.W. Hargrove. 2001. Predicting climate change effects on Appalachian trout: Combining GIS and individual-based modeling. *Ecol. Appl.*, 2001. 11(1):161-178.
- Cowan, J. H., K. A. Rose, and E. D. Houde. 1995. Size-based foraging success and vulnerability predation: selection of survivors in individual-based models of larval fish populations. *Early Life History and Recruitment in Fish Populations*, R. C. Chambers and E. A. Trigel (eds.), Chapman and Hall.
- Cowan, J.H., E.D. Houde, and K.A. Rose. 1996. Size-dependent vulnerability of marine fish larvae to predation: An individual-based numerical experiment. *ICES J. Mar. Sci.* 53(1): p. 23-37.
- Dale, V.H., A.W. King, L.K. Mann, and T.L. Ashwood. 2000. Contribution of spatial information and models to management of rare and declining species, pp.159-172 IN *Spatial Information for Land Use Management*.
- Dale, V.H., D.T. Forest, and T.L. Ashwood. 2000. *A Landscape-Transition Matrix Approach for Land Management*. Cambridge University Press.
- Dale, V.H. 2000. *Applying Ecological Guidelines for Land Management to Farming in the Brazilian Amazon*. Springer-Verlag: New York.
- DeAngelis, D. L. 1994. Chapter 35. What food web analysis can contribute to wildlife toxicology. pp. 365-82. In R. J. Kendall and T. E. Lacher, Jr. (eds.), *Wildlife Toxicology and Population Modeling: Integrated Studies of Agroecosystems*. Proceedings of the Ninth Pellston Workshop, Kiawah Island, South Carolina, July 22-27, 1990. SETAC special publications series. CRC Press, Inc., Boca Raton, Florida.

- DeAngelis, D.L., K. A. Rose, L. B. Crowder, E. A. Marschall, and D. Lika, 1993. Fish Cohort Dynamics: Application of Complementary Modeling Approaches. *The American Naturalist*, 142: 604-622.
- DeAngelis, D.L. and Gross, L.J. (Editors), 1992. *Individual-based Models and Approaches in Ecology*. Chapman and Hall, New York, 525 pp.
- DeAngelis, D.L., W.M. Post and Travis, C.C., 1986. *Positive Feedback in Natural Systems*. Springer-Verlag, New York, 290 pp.
- DeAngelis, D.L., Rose, K.A., Crowder, L.B., Marschall, E.A. and Lika, D., 1993. Fish cohort dynamics: application of complementary modeling approaches. *American Naturalist*, 142: 604-622.
- DeAngelis, D. L., K. A. Rose, and M. A. Huston. 1995. Individual-oriented approaches to modeling ecological populations and communities. S. A. Levin (ed.), *Frontiers of Theoretical Biology (Lecture Notes in Biomathematics, Vol. 100)*. Springer-Verlag.
- Efroymson, R.A., B.E. Sample, and G.W. Suter. 2001. Uptake of inorganic chemicals from soil by plant leaves: Regressions of field data. *Environ. Toxicol. Chem.* 20(11): 2561-2571.
- Efroymson, R.A. and D.L. Murphy. 2001. Ecological risk assessment of multimedia hazardous air pollutants: estimating exposure and effects. *Sci. Total Environ.* 274(1-3): 219-230.
- Efroymson, R.A., G.W. Suter, W.H. Rose, and S. Nemeth. 2001. Ecological risk assessment framework for low-altitude aircraft overflights: I. Planning the analysis and estimating exposure. *Risk Anal.* 21(2): 251-262.
- Efroymson, R.A. and G.W. Suter. 2001. Ecological risk assessment framework for low-altitude aircraft overflights: II. Estimating effects on wildlife. *Risk Anal.* 21(2): 263-274.
- Efroymson, R. A., Carlsen, T. M., Jager, H. I., Kostova, T., Carr, E. A., Hargrove, W. W., Kercher, J., and Ashwood, T. L. 2004. Pages 261-285 *In* *Toward a Framework for Assessing Risk to Vertebrate Populations from Brine and Petroleum Spills at Exploration and Production Sites, Landscape Ecology and Wildlife Habitat Evaluation: Critical Information for Ecological Risk Assessment, Land-Use Management Activities, and Biodiversity Enhancement Practices*, ASTM STP 1458, L. Kapustka et al. (eds.), ASTM International, West Conshohocken, PA.
- Jager, H.I. Accepted 2005. Chutes and ladders and other games we play with rivers: I. upstream passage. *Canadian Journal of Fisheries and Aquatic Sciences*
- Jager, H.I. Accepted 2005. Chutes and ladders and other games we play with rivers: II. translocation. *Canadian Journal of Fisheries and Aquatic Sciences*
- Jager, H.I., E.A. Carr, and R.A. Efroymson. In press 2005. Simulated effects of habitat loss and fragmentation on a solitary, mustelid predator. *Ecological Modelling*.
- Jager, H.I. In press 2005. Genetic and demographic implications of aquaculture on white sturgeon (*Acipenser transmontanus*) conservation. *Canadian Journal of Fisheries and Aquatic Sciences*.
- Jager, H.I., R.A. Efroymson, K. Sublette, and T.A. Ashwood. In press 2005. Unnatural landscapes in ecology: Generating the spatial distribution of brine spills. *Environmetrics* 16:xxx-xxx.
- Jager, H.I., A.W. King, N.H. Schumaker, T.L. Ashwood, and B.L. Jackson. 2005. Spatial uncertainty analysis of population models. *Ecological Modelling* 185(1): 13-27.

- Jager, H.I. and A.W. King. 2004. Spatial uncertainty and ecological models. *Ecosystems* 7: 1-7.
- Jager, H.I. and K.A. Rose. 2003. Designing optimal flow patterns for fall Chinook salmon recruitment in a Central Valley, California river. *North American Journal of Fisheries Management* 23: 1-21.
- Jager, H.I., W. Van Winkle, K.A. Lepla, J.B. Chandler, P. Bates, and T.D. Counihan. 2002. Factors controlling white sturgeon recruitment in the Snake River. Pages 127--150 IN: W. Van Winkle, P.J. Anders, D.H. Secor, and D.A. Dixon, eds., *Biology, Management, and Protection of Sturgeon*, American Fisheries Society Symposium 28, American Fisheries Society, Bethesda, MD.
- Jager, H. I. 2001. Individual variation in life history characteristics can influence population extinction risk. *Ecological Modelling* 144(1): 59-74.
- Jager, H.I. and J.A. Tyler. 2001. Letter to the editor concerning Railsback et al. 1999. Movement rules for individual-based models of stream fish. *Ecological Modelling* 144(3): 245-248.
- Jager, H. I., W. Van Winkle, K. Lepla, and J. Chandler. 2001. A theoretical study of river fragmentation by dams and its effects on white sturgeon populations. *Environmental Biology of Fishes* 60: 347-361.
- Jager, H. I., W. Van Winkle, K. Lepla, J. Chandler, and P. Bates. 2000. Population viability analysis of riverine fishes. Special issue of the *Journal of Environmental Science and Policy* 3: S483-489.
- Jager, H.I., W. Van Winkle, and B.D. Holcomb. 1999. Would hydrologic climate changes in Sierra-Nevada streams influence trout persistence? *Transactions of the American Fisheries Society* 128: 222-240.
- Jager, H.I., H.E. Cardwell, M.J. Sale, M.J. Bevelhimer, C.C. Coutant, and W. Van Winkle. 1997. Modelling the linkages between flow management and salmon recruitment in streams. *Ecological Modelling* 103: 171-191.
- Jager, H.I., D.L. DeAngelis, M.J. Sale, W. VanWinkle, D.D. Schmoyer, M.J. Sabo, D.J. Orth, and J.A. Lukas. 1993. An individual-based model of smallmouth bass reproduction and young-of-year dynamics in streams. *Rivers* 4: 91-113.
- Jaworska, J.S., K.A. Rose, and A.L. Brenkert. 1997. Individual-based modeling of PCBs effects on young-of-the-year largemouth bass in southeastern USA reservoirs. *Ecol. Model.* 99(2-3): p. 113-135.
- Letcher, B. H., J. A. Rice, L. B. Crowder, and K. A. Rose. 1996. Variability in survival of larval fishes: disentangling components with a generalized individual-based model. *Canadian Journal of Fisheries and Aquatic Sciences* 53(4): 787-801.
- Rose, K.A., 2000. Why are quantitative relationships between environmental quality and fish populations so elusive? *Ecological Applications*, 10: 367-385.
- Rose, K.A., J.A. Tyler, R.C. Chambers, G. KleinMacPhee, and D.J. Danila, 1996. Simulating winter flounder population dynamics using coupled individual-based young-of-the-year and age-structured adult models. *Can. J. Fish. Aquat. Sci.*, 1996. 53(5): 1071-1091.
- Rose, K.A. and J.H. Cowan, Jr. 1993. Individual-based model of young-of-the-year striped bass population dynamics. I. Model description and baseline simulations. *Transactions of the American Fisheries Society*, 122: 415-438.

- Rose, K.A., J.H. Cowan, Jr., E.D. Houde and Coutant, C.C., 1993. Individual-based modelling of environmental quality effects on early life stages of fishes: a case study using striped bass. *American Fisheries Society Symposium*, 14: 125-145.
- Sale, M.J. and Otto, R.G., 1991. Improving the assessment of instream flow needs for fish populations, *Waterpower '91 Proceedings*.
- Sale, M.J., E. Downey Brill, J. and Edwin, E.H., 1982. An Approach to Optimizing Reservoir Operation for Downstream Aquatic Resources. *Water Resources Research*, 18.
- Railsback, S.F. and K.A. Rose. 1999. Bioenergetics modeling of stream trout growth: Temperature and food consumption effects. *Trans. Am. Fish. Soc.*, 128(2): p. 241-256.
- Rose, K.A., E.S. Rutherford, D.S. McDermot, J.L. Forney, and E.L. Mills. 1999. Individual-based model of yellow perch and walleye populations in Oneida Lake. *Ecol. Monogr.* 69(2): 127-154.
- Sample, B.E., K.A. Rose, and G.W. Suter, II, 1998. Estimation of Population-Level Effects on Wildlife Based on Individual-Level Exposures: Influence of Life History Strategies. SETAC Press.
- Sample, B.E. and G.W. Suter II. 1999. Ecological risk assessment in a large river-reservoir: 4. Piscivorous wildlife. *Environ. Toxicol. Chem.* 18(4): 610-620.
- Sample, B.E. and C.A. Arenal, Bull. 1999. Allometric models for interspecies extrapolation of wildlife toxicity data. *Bull. Environ. Contam. Toxicol.* 62(6): 653-663.
- Smith, E. P and K. A. Rose. 1993. Model goodness of fit analysis using regression and related techniques. *Ecol. Modell.* 77:49-64.
- Sullivan, A.B., Jager, H.I. and R. Myers. 2003. Modeling white sturgeon movement in a reservoir: The effect of water quality. *Ecological Modelling* 167(1-2): 97-114.
- Suter, G.W., *Ecol. Econ.* ARTICLE: Adapting Ecological Risk Assessment for Ecosystem Valuation. *Ecol. Econ.*, 1995. 14(2): p. 137-14
- Suter, G.W., L.W. Barnhouse, R.A. Efroymsen, and H. Jager. 1999. Ecological risk assessment in a large river-reservoir: 2. Fish community. *Environ. Toxicol. Chem.*, 18(4): 589-598.
- Tyler, J. A., and K. A. Rose. 1994. Individual variability and spatial heterogeneity in fish population models. *Rev. Fish Biol. Fish.* 4:91-123.
- Tyler, J.A., and W.W. Hargrove 1997. Predicting spatial distribution of foragers over large resource landscapes: a modeling analysis of the Ideal Free Distribution. *Oikos* 79(2):376-386.
- Van Winkle, W., H.I. Jager and Holcomb, B.D., 1996. An individual-based instream flow model for coexisting populations of brown and rainbow trout. TR-106258, Electric Power Research Institute, Palo Alto, CA.
- Van Winkle, W., Karas, P., Neuman, E., O. Sandstrom and Thoresson, G., 1997. Individual based model for Eurasian perch populations in the Baltic Sea. Oak Ridge National Laboratory, Oak Ridge, TN.
- Van Winkle, W., Jager, H.I., Railsback, S.F., Holcomb, B.D., Studley, T.K. and Baldrige, J.E., 1998. Individual-based model of sympatric populations of brown and rainbow trout for instream flow assessment: model description and calibration. *Ec. Mod.*, 110: 175-207.

- Van Winkle, W., Rose, K.A., Winemiller, K.O., DeAngelis, D.L., Christensen, S.W., Otto, R.G. and Shuter, B.J., 1993. Linking life history theory, environmental setting and individual-based modeling to compare responses of different fish species to environmental change. *Transactions of the American Fisheries Society*, 122.
- Van Winkle, W., Rose, K.A., and R. C. Chambers. 1993. Individual-based approach to fish population dynamics: An overview. *Trans. Am. Fish. Soc.* 122:397-403.
- Van Winkle, W., Coutant, C.C., Jager, H.I., Mattice, J.S., Orth, D.J., Otto, R.G., Railsback, S.F. and Sale, M.J., 1997. Uncertainty and instream flow standards: perspectives based on research and assessment experience. *Fisheries*, 21: 21-22.
- Van Winkle, W., B.D. Holcomb, H.I. Jager, J.A. Tyler, S.Y. Whitaker, and B.J. Shuter. 1995. Regulation of energy acquisition and allocation to respiration, growth, and reproduction: simulation model and example using rainbow trout. *IN R.C. Chambers and E.A. Trippel, (eds.), Early Life History and Recruitment in Fish Populations*, Chapman and Hall.
- Van Winkle, W., H.I. Jager, S.F. Railsback, B.D. Holcomb, T.K. Studley, and J.E. Baldrige. 1998. Individual-based model of sympatric populations of brown and rainbow trout for instream flow assessment: model description and calibration. *Ecological Modelling* 110: 175-207.
- Van Winkle, W., K. A. Rose, B. J. Shuter, H. I. Jager, and B. D. Holcomb. 1997. Effects of climatic temperature change on growth, survival, and reproduction of rainbow trout: predictions from a simulation model. *Canadian Journal of Fisheries and Aquatic Sciences* 54: 2526-2542.
- Van Winkle, W., C.C. Coutant, H.I. Jager, J.S. Mattice, D.J. Orth, R.G. Otto, S.F. Railsback, and M.J. Sale. 1997. Uncertainty and instream flow standards: perspectives based on research and assessment experience. *Fisheries* 21: 21-22.
- Webb, E., A. Borison, D. Cacela, S. Christensen, M. Evans, R. Hunter, H. Jones, and P. Kaplan. 1998. Design of an Ecological Risk Assessment Decision-Support System. SETAC Press: Pensacola. 45-61
- Winemiller, K. O., and K. A. Rose. 1993. Why do most fish produce so many tiny offspring? *Am. Nat.* 142(4):585-603.