

JOHN R. SKALSKI

Professor of Biological Statistics
School of Aquatic and Fishery Sciences
University of Washington
Box 358218
Seattle, WA 98195-8218
Phone (206) 616-4851
Fax (206) 616-7452
E-mail: jrs@cbr.washington.edu

EDUCATION

B.S.	Wildlife Management/Biology, University of Wisconsin, Stevens Point	1974
M.S.	Wildlife Science, Oregon State University	1976
M.S.	Biometry, Cornell University	1978
Ph.D.	Biometry, Cornell University	1985

EMPLOYMENT HISTORY

1978-1985	Research Scientist, Battelle Pacific Northwest National Laboratory, Richland, Washington
1985-1987	Senior Research Scientist, Battelle Marine Research Laboratory, Sequim, Washington
1987-1995	Associate Professor, Center for Quantitative Science, School of Fisheries University of Washington, Seattle, Washington
1992-1995	Interim Director, Center for Quantitative Science in Forestry, Fisheries, and Wildlife, University of Washington, Seattle, Washington
1994-1995	Chair, Interdisciplinary Graduate Program in Quantitative Ecology and Resource Management, Graduate School, University of Washington, Seattle, Washington
1995-2000	Professor, School of Fisheries, University of Washington, Seattle, Washington
Present	Professor, School of Aquatic and Fishery Sciences, University of Washington, Seattle, Washington

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ADJUNCT/AFFILIATE POSITIONS

- 1989 - Present Affiliate Faculty Member, Northwest College and University Association for Science (NOCUS), Richland, Washington
- 1992 - 1994 Adjunct Associate Professor, Department of Environmental Toxicology, Clemson University, Clemson, South Carolina
- 1996 - Present Adjunct Professor, College of Forest Resources, University of Washington, Seattle, Washington

BACKGROUND

Dr. Skalski's research has focused on the development of sampling methodology, field designs and statistical tests for assessing human induced and natural effects on organismic and ecological systems. Dr. Skalski was the biometrician responsible for the design and statistical analysis of the 1986 study of the acoustic effects of a geophysical survey device on the catch-per-unit-effect in the rock fish hook-and-line fishery and the 1987 study of the acoustic effects on the zoeae stage of the Dungeness crab. He was also the biometrician on a study to assess the influences of mesh size changes on the trawl fishery for ground and rock fish in California, Oregon, and Washington. Both the geophysical and mesh size studies have resulted in regulatory changes in the oil industry and commercial fisheries. Other research activities of Dr. Skalski include an investigation for the US Nuclear Regulatory Commission which resulted in impact assessment designs which have been implemented at such sites as San Onofre Nuclear Generating Station, California. Research for the U.S. Department of Energy involved the development of experimental designs and data analysis techniques for detecting treatment effects on wild populations. Research on design optimization indicates that many applied ecology studies which failed to provide timely and purposeful information could have done so, if the same resources had been properly allocated. These optimization techniques provide objective means of evaluating the utility of environmental sampling programs. Other research activities include the adaptation of survival analysis for the study of wildlife epidemiology.

Empirical studies have investigated approaches for the analysis of catch-per-unit effort (CPUE) data in impact assessment, long-term effects of energy production on salmonid populations, and the statistical analysis of coded-wire-tag, PIT-tag, radio-tag, and balloon-tag data in fisheries. He has also worked with the General Counsel for National Oceanic and Atmospheric Administration on statistical approaches for estimating fishery bycatch rates of halibut. Particular expertise exists in assessing effects on biological systems and the use of statistics in resource management decisions and policies. Statistical research has involved the sampling from discrete distributions, analysis of non-linear response models, point and interval estimation, construction of statistical tests, as well as Monte Carlo studies of robustness and the use of data transformations. Special investigations have considered study designs confronted with restrictions on randomization and replication. Areas of applied statistical research include estimation of population abundance, and survival and migration rates of fish stocks.

Dr. Skalski is a member of the American Statistical Association, The Wildlife Society, and the American Fisheries Society. He is also a Certified Wildlife Biologist through The Wildlife Society.

PUBLICATIONS

Theses:

Skalski, J. R., 1977. Transferrin polymorphism in a population of Nuttall's cottontail in central Oregon. M.S. Thesis. Oregon State University. 57 pp.

Skalski, J. R., 1978. Tests of homogeneity and goodness-of-fit to a truncated geometric distribution. M.S. Thesis. Cornell University. 45 pp.

Skalski, J. R., 1985. Use of capture data to quantify change and tests for effects on the abundance of wild populations. Ph.D. Thesis. Cornell University. 404 pp.

Graduate Student Theses and Dissertations:

Smith, S.G. 1991. Assessing hazards in wild populations using auxiliary variables in tag-release models. Ph.D. dissertation. Quantitative Ecology and Resource Management, University of Washington, Seattle, Washington, USA.

Hoffmann, A. 1993. Quantifying selection in wild populations using known-fate and mark-recapture data. Ph.D. dissertation. Quantitative Ecology and Resource Management, University of Washington, Seattle, Washington, USA.

Liao, S. 1994. Statistical models for estimating salmon escapement and stream residence time based on stream survey data. Ph.D. dissertation. Quantitative Ecology and Resource Management, University of Washington, Seattle, Washington, USA.

Bickford, S.A. 1996. A retrospective analysis of the results, trends, and methodologies of Columbia and Snake River survival studies, 1971 to 1995. M.S. thesis. School of Fisheries, University of Washington, Seattle, Washington, USA.

Lady, J. 1996. Release-recapture models for estimating the stream residence time of spawning salmon. M.S. thesis. Quantitative Ecology and Resource Management, University of Washington, Seattle, Washington, USA.

Schlechte, J.W. 1996. Stage-structured analysis and modeling of the Pacific razor clam (*Siliqua patula*) in a changing environment: investigation of population dynamics and harvest strategies using process models and simulation. Ph.D. dissertation. School of Fisheries, University of Washington, Seattle, Washington, USA.

Gove, N.E. 1997. Using age-at-harvest data to estimate demographic parameters for wildlife populations. M.S. thesis. Quantitative Ecology and Resource Management, University of Washington, Seattle, Washington, USA.

- Ryding, K.E. 1998. Analyzing adult returns to assess ocean effects and salmon survival relationships. M.S. thesis. Quantitative Ecology and Resource Management, University of Washington, Seattle, Washington, USA.
- Ryding, K.E. 2002. Estimation of demographic parameters used in assessing wildlife population trends. Ph.D. dissertation. Quantitative Ecology and Resource Management, University of Washington, Seattle, Washington, USA.
- Buchanan, R.A. 2005. Release-recapture models for migration juvenile and adult salmon in the Columbia and Snake Rivers using PIT tag and radiotelemetry data. Ph.D. dissertation. Quantitative Ecology and Resource Management, University of Washington, Seattle, Washington, USA.
- Miller, T.J. 2005. Estimation of catch parameters from a fishery observer program with multiple objectives. Ph.D. dissertation. Quantitative Ecology and Resource Management, University of Washington, Seattle, Washington, USA.
- Ashbrook, C.E. 2008. Selective fishing and its impacts on salmon: a tale of two test fisheries, M.S. thesis. School of Aquatic & Fishery Sciences, University of Washington, Seattle, Washington, USA.
- Broms, K. 2008. Small game population reconstruction: Model development and application. M.S. thesis. Quantitative Ecology and Resource Management, University of Washington, Seattle, Washington.

Books:

- Skalski, J. R., K. E. Ryding, and J. J. Millspaugh. 2005. Wildlife demography: Analysis of sex, age, and count data. Academic Press. San Diego, CA. 656 pp.
- Smith, S. G., J. R. Skalski, J. W. Schlechte, A. Hoffmann, and V. Cassen. 1994. SURPH.1 manual: Statistical survival analysis of fish and wildlife tagging studies. Center for Quantitative Science, School of Fisheries, University of Washington, Seattle, WA.
- Skalski, J. R., and D. S. Robson. 1992. Techniques for wildlife investigations: Design and analysis of capture data. Academic Press. San Diego, CA. 237 pp.

Submitted Papers:

- Broms, K. M., J. R. Skalski, J. J. Millspaugh, C. A. Hagen, and J. H. Schulz. 2008. Using statistical population reconstruction to estimate demographic trends in small game populations. *Journal of Wildlife Management* (submitted).
- Diefenderfer, H. L., R. M. Thom, G. E. Johnson, J. R. Skalski, K. A. Vogt, B. D. Ebberts, G. C. Roegner, and E. M. Dawley. Assessing cumulative ecosystem response to estuary and river restoration programs using a levels-of-evidence approach. *Ecological Restoration* (submitted).
- Skalski, J. R., R. A. Buchanan, and J. Griswold. 2009. Review of marking methods and release-recapture designs for estimating salmonid fry survival in tributary waters. *Reviews in Fisheries Science* (accepted).
- Hurley, M. A., J. W. Unsworth, P. Zager, E. O. Garton, D. M. Montgomery, J. R. Skalski, and C. L. Maycock. 2008. Mule deer population response to experimental reduction of coyotes and mountain lions. *Journal of Wildlife Management* (submitted).
- Millspaugh, J. J., J. R. Skalski, R. L. Townsend, D. R. Diefenbach, M. S. Boyce, L. P. Hansen, and K. M. Kammermeyer. 2008. An evaluation of the sex-age-kill (SAK) model performance. *Journal of Wildlife Management* (accepted).
- Perry, R. W., P. L. Brandes, P. Sandstrom, A. Ammann, B. McFarlane, A. P. Klimley, and J. R. Skalski. 2008. Estimating migration and survival of juvenile Chinook salmon through the Sacramento–San Joaquin River Delta. *North American Journal of Fisheries Management* (submitted).
- Skalski, J. R., R. A. Buchanan, R. L. Townsend, T. W. Steig, and A. Grassell. 2008. A multiple-release model to estimate route-specific and dam passage survival at a hydroelectric project. *North American Journal of Fisheries Management* (accepted).
- Skalski, J. R., and S. Liao. 2008. Performance of three alternative estimators of stream residence time based on live and dead counts of salmonids. *North American Journal of Fisheries Management* (submitted).
- Erickson, A., T. Klinger, J. Skalski, S. C. Fradkin, and G. R. VanBlaircom. 2007. Barnacle size declines in response to human trampling on the exposed coast of Washington State. *Marine Ecology Progress Series* (submitted).
- Pearson, W. H., J. R. Skalski, and K. L. Sobocinski. 2007. Factors affecting stranding of juvenile salmonids by wakes from ship passage in the Lower Columbia River. *River Research and Applications* (submitted).

Papers:

- Skalski, J. R. 2008. Tiny PIT tag plays a big role in the Columbia-Snake River Basin. *Hydro Review* 27(5):48-55.
- Skalski, J. R., J. J. Millspaugh, and K. E. Ryding. 2008. Effects of asymptotic and maximum age estimates on calculated rates of population change. *Ecological Modelling* 212:528-535.
- Skalski, J. R., R. L. Townsend, L. L. McDonald, J. W. Kern, and J. J. Millspaugh. 2008. Type I errors linked to faulty statistical analyses of endangered species classifications. *Journal of Agricultural, Biological, and Environmental Statistics* 13(2):1-22.
- Buchanan, R. A., and J. R. Skalski. 2007. A migratory life-cycle release-recapture model for salmonid PIT-tag investigations. *Journal of Agricultural, Biological, and Environmental Statistics* 12(3):325-345.
- Deriso, R. B., M. N. Maunder, and J. R. Skalski. 2007. Variance estimation in integrated assessment models and its importance for hypothesis testing. *Canadian Journal of Fisheries and Aquatic Sciences* 64:187-197.
- Gilbert, B. A., K. J. Raedeke, J. R. Skalski, and A. B. Stringer. 2007. Modeling black-tailed deer population dynamics using structured and unstructured approaches. *Journal of Wildlife Management* 71(1):144-154.
- Miller, T. J., J. R. Skalski, and J. N. Ianelli. 2007. Optimizing observer coverage when faced with multiple objectives. *ICES Journal of Marine Science* 64:97-109.
- Ryding, K. E., J. J. Millspaugh, and J. R. Skalski. 2007. Using time series to estimate the finite rate of population. *Journal of Wildlife Management* 71(1):202-207.
- Skalski, J. R., J. J. Millspaugh, P. Dillingham, and R. A. Buchanan. 2007. Note: Calculating the variance of the finite rate of population change from a matrix model in *Mathematica. Environmental Modelling & Software* 22:359-364.
- Skalski, J. R., R. L. Townsend, and B. A. Gilbert. 2007. Calibrating population reconstruction models using catch-effort and index data. *Journal of Wildlife Management* 71(4):1309-1316.
- Buchanan, R. A., J. R. Skalski, and S. G. Smith. 2006. Estimating the effects of smolt transportation from different vantage points and management perspectives. *North American Journal of Fisheries Management* 26:460-472.
- Miller, T. J., and J. R. Skalski. 2006. Estimation of seabird bycatch for Alaskan longline vessels using model- and design-based methods. *Canadian Journal of Fisheries and Aquatic Sciences* 63:1878-1889.

- Miller, T. J., and J. R. Skalski. 2006. Integrating design- and model-based inference to estimate length and age composition in Alaska longline catches. *Canadian Journal of Fisheries and Aquatic Sciences* 63:1092-1114.
- Skalski, J. R., and J. J. Millspaugh. 2006. Application of multidimensional change-in-ratio method using Program USER. *Wildlife Society Bulletin* 34:433-439.
- Skalski, J. R., J. J. Millspaugh, and K. E. Ryding. 2006. The impact of hunter postseason survey design on harvest estimation. *Wildlife Society Bulletin* 34:329-337.
- Skalski, J. R., J. J. Millspaugh, and R. D. Spencer. 2006. Population estimation and biases in paint-ball mark-resighting surveys of elk. *Journal of Wildlife Management* 69 (3):1043-1052.
- Townsend, R. L., J. R. Skalski, P. Dillingham, and T. W. Steig. 2006. Correcting bias in survival estimation resulting from tag failure in acoustic and radiotelemetry studies. *Journal of Agricultural, Biological, and Environmental Statistics* 11:183-196.
- Dillingham, P. W., J. R. Skalski, and K. E. Ryding. 2005. Fine geographic scale interactions between Steller sea lion trends and local fisheries. *Canadian Journal of Fisheries and Aquatic Sciences* 63:107-119.
- Johnson, G. E., J. B. Hedgepeth, J. R. Skalski, and A. E. Giorgi. 2004. A Markov chain analysis of fish movements to determine entrainment zones. *Fisheries Research* 69(3):349-358.
- Ehrler, C. P., J. R. Steinbeck, E. A. Laman, J. B. Hedgepeth, J. R. Skalski, and D. L. Mayer. 2002. A process for evaluating adverse environmental impacts from cooling water system entrainment at a California power plant. *The Scientific World Journal* 2:81-105.
- Gove, N. E., J. R. Skalski, P. Zager, and R. Townsend. 2002. Statistical models for population reconstruction using age-at-harvest data. *Journal of Wildlife Management* 66:310-320.
- Hedgepeth, J. B., G. E. Johnson, J. R. Skalski, and J. Burczynski. 2002. Active fish sonar (AFTS) for assessing fish behavior. *Acta Acoustic United with Acustica* 88:739-742.
- Skalski, J. R., D. Mathur, and P. G. Heisey. 2002. Effects of turbine operating efficiency on smolt passage survival. *North American Journal of Fisheries Management* 22:1193-1200.
- Skalski, J. R., and J. J. Millspaugh. 2002. Generic variance expressions, precision, and sampling optimization for the sex-age-kill model of population reconstruction. *Journal of Wildlife Management* 55:1308-1316.
- Skalski, J. R., R. Townsend, J. Lady, A. E. Giorgi, and J. R. Stevenson. 2002. Estimating route-specific passage and survival probabilities at a hydroelectric project from smolt radiotelemetry studies. *Canadian Journal of Fisheries and Aquatic Sciences* 59: 1385-1393.

- Smith, S. G., W. D. Muir, J. G. Williams, and J. R. Skalski. 2002. Factors associated with travel time and survival of migrant yearling chinook salmon and steelhead in the Lower Snake River. *North American Journal of Fisheries Management* 22:385-405.
- Muir, W. D., S. G. Smith, J. G. Williams, E. E. Hockersmith, and J. R. Skalski. 2001. Survival estimates for migrant yearling chinook salmon and steelhead in the lower Snake and lower Columbia Rivers, 1993-1998. *North American Journal of Fisheries Management* 21:269-282.
- Skalski, J. R., D. A. Coats, and A. K. Fukuyama. 2001. Criteria for oil spill recovery: A case study of the intertidal community of Prince William Sound, Alaska, following the *Exxon Valdez* oil spill. *Environmental Management* 28:9-18.
- Skalski, J. R., J. Lady, R. Townsend, A. E. Giorgi, J. R. Stevenson, C. M. Peven, and R. D. McDonald. 2001. Estimating inriver survival of migrating salmonid smolts using radiotelemetry. *Canadian Journal of Fisheries and Aquatic Sciences* 58:1987-1997.
- Bickford, S. A., and J. R. Skalski. 2000. Reanalysis and interpretation of 25 years of Snake-Columbia River juvenile salmonid survival studies. *North American Journal of Fisheries Management* 20:53-68.
- Mathur, D., P. G. Heisey, J. R. Skalski, and D. R. Kenney. 2000. Salmonid smolt survival relative to turbine efficiency and entrainment depth in hydroelectric power generation. *Journal of American Water Resources Association* 36:737-747.
- Ryding, K. E., and J. R. Skalski. 1999. Multivariate regression relationships between ocean conditions and early marine survival of coho salmon (*Oncorhynchus kisutch*). *Canadian Journal of Fisheries and Aquatic Sciences* 56:2374-2384.
- Lady, J., and J. R. Skalski. 1998. Estimators of stream residence time of Pacific salmon (spp. *Oncorhynchus*) based on release-recapture data. *Canadian Journal of Fisheries and Aquatic Sciences* 55:2580-2587.
- Lowther, A. B., and J. R. Skalski. 1998. A multinomial likelihood model for estimating survival probabilities and residualization for fall chinook salmon (*Oncorhynchus tshawytscha*) smolt using release-recapture methods. *Journal of Agricultural Biology and Environmental Statistics* 3:223-236.
- Millspaugh, J. J., J. R. Skalski, B. J. Kernohan, G. C. Brundige, A. B. Cooper, and K. J. Raedeke. 1998. Some comments on spatial independence in resource selection studies. *Wildlife Society Bulletin* 26(2):232-236.
- Skalski, J. R. 1998. Estimating season-wide survival rates of outmigrating smolt in the Snake River, Washington. *Canadian Journal of Fisheries and Aquatic Sciences* 55:761-769.
- Skalski, J. R., S. G. Smith, R. N. Iwamoto, J. G. Williams, and A. Hoffmann. 1998. Use of PIT-tags to estimate survival of migrating juvenile salmonids in the Snake and Columbia Rivers. *Canadian Journal of Fisheries and Aquatic Sciences* 55:1484-1493.

- Dumbauld, B. R., D. A. Armstrong, and J. Skalski. 1997. Efficacy of the pesticide carbaryl for Thalassinid shrimp control in Washington state oyster (*Crassostrea gigas*, Thunberg 1793) aquaculture. *Journal of Shellfish Research* 16:503-518.
- Mathur, D., P. G. Heisey, E. T. Euston, and J. R. Skalski. 1996. Turbine passage survival estimates for chinook salmon smolt (*Oncorhynchus tshawytscha*) at a large dam on the Columbia River. *Canadian Journal of Fisheries and Aquatic Sciences* 53:542-549.
- Perez-Comas, J. A., and J. R. Skalski. 1996. A parametric multinomial model for size selection in alternate-haul experiments. *Fisheries Research* 27:113-129.
- Skalski, J. R. 1996. Regression of abundance estimates from mark-recapture surveys against environmental covariates. *Canadian Journal of Fisheries and Aquatic Sciences* 53:196-204.
- Skalski, J. R., G. E. Johnson, C. M. Sullivan, E. Kudera, and M. W. Erho. 1996. Statistical evaluation of turbine bypass efficiency at Wells Dam on the Columbia River, Washington. *Canadian Journal of Fisheries and Aquatic Sciences* 53:2188-2198.
- Armstrong, D. A., P. A. Dinnel, J. M. Orensanz, J. L. Armstrong, T. McDonald, R. Cusimano, R. Nemeth, M. Landolt, J. R. Skalski, R. F. Lee, and R. J. Hugget. 1995. Status of selected bottomfish and crustacean species in Prince William Sound following the *Exxon Valdez* oil spill. Third symposium on environmental toxicology and risk assessment: Aquatic, Plants, and terrestrial. In: Standard Technical Publication 1219, pp. 485-547. American Society for Testing and Materials. Philadelphia, PA.
- Brannon, E. J., L. L. Moulton, L. G. Gilbertsen, A. W. Maki, and J. R. Skalski. 1995. An assessment of oil spill effects in pink salmon populations following the *Exxon Valdez* oil spill. Part 1: Early life history. Third symposium on environmental toxicology and risk assessment: Aquatic, plants, and terrestrial. American Society of Testing and Materials. Philadelphia, PA.
- Hilborn, R., J. Skalski, A. Anganuzzi, and A. Hoffmann. 1995. Movements of juvenile halibut in IPHC Regulatory Areas 2 and 3. International Pacific Halibut Commission. Technical Report No. 31.
- Hoffmann, A., and J. R. Skalski. 1995. Inferential properties of an individual-based survival model using release-recapture data: Sample size, validity, and power. *Journal of Applied Statistics* 22:579-595.
- Maki, A. W., E. J. Brannon, L. G. Gilbertsen, L. L. Moulton, and J. R. Skalski. 1995. An assessment of oil spill impacts on pink salmon populations following the *Exxon Valdez* oil spill. Part II: Adults and escapement. Third symposium on environmental toxicology and risk assessment: Aquatic, plants, and terrestrial. American Society of Testing Materials. Philadelphia, PA.

- Pearson, W. H., E. Moksness and J. R. Skalski. 1995. A field and laboratory assessment of oil spill impacts on survival and reproduction of Pacific herring following the *Exxon Valdez* oil spill. Third symposium on environmental toxicology and risk assessment: Aquatic, plants, and terrestrial. American Society of Testing Materials. Philadelphia, PA.
- Skalski, J. R. 1995. Statistical considerations in the design and analysis of environmental damage assessment studies. *Journal of Environmental Management* 43:67-85.
- Anganazzi, A., R. Hilborn, and J. R. Skalski. 1994. Estimation of size-selectivity and movement rates from mark-recapture data. *Canadian Journal of Fisheries and Aquatic Sciences* 51:734-742.
- Johnson, G. E., J. R. Skalski, and D. J. Degan. 1994. Statistical precision of hydroacoustic sampling of fish entrainment at hydroelectric facilities. *North American Journal of Fisheries Management* 14:323-333.
- Pearson, W. H., J. R. Skalski, J. D. Sulkin, and C. I. Malme. 1994. Effects of seismic energy releases in the survival and development of zoeal larvae of Dungeness crab (*Cancer magister*). *Marine Environmental Research* 38:93-113.
- Skalski, J. R. 1994. Estimating wildlife resources based on incomplete area surveys. *Wildlife Society Bulletin* 22:192-203.
- Skalski, J. R., and S. G. Smith. 1994. Risk assessment in avian toxicology using experimental and epidemiological approaches. In *Wildlife toxicology and population modelling: Integrated studies of agroecosystems*, pp. 467-488. Lewis Publishers. Boca Raton, FL.
- Skalski, J. R., and J. Q. Word. 1994. Detection of contaminated samples using a two-way compositing scheme. *Environmental Toxicology and Chemistry* 13:15-19.
- Skalski, J. R., A. Hoffmann, B. H. Ransom and T. W. Steig. 1993. Fixed-location hydroacoustic monitoring designs for estimating fish passage using stratified random and systematic sampling. *Canadian Journal of Fisheries and Aquatic Sciences* 50:1208-1221.
- Skalski, J. R., and A. J. Perez-Comas. 1993. Nonparametric maximum likelihood estimation of mesh size selectivity. *Fisheries Research* 18:321-334.
- Skalski, J. R., A. Hoffmann, and S. G. Smith. 1993. Testing the significance of individual-and cohort-level covariates in animal survival studies. EURING 92. In *Marked individuals in the study of bird populations*, S. D. Lebreton and P. M. North (eds.), pp. 9 - 28. Birkhauser Verlag. Boston, MA.
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- Pearson, W. H., J. R. Skalski, and C. I. Malme. 1992. Effects of sounds from a geophysical survey device on behavior of captive rockfish (*Sebastes* spp.). *Canadian Journal of Fisheries and Aquatic Sciences* 49:1343-1356.

- Skalski, J. R. 1992. Orientation of sampling grids for determining the extent of wavefront contamination. *Society of Environmental Toxicology and Chemistry* 11:169-171.
- Skalski, J. R. 1992. Quantifying animal abundance using sign counts. *Journal of Wildlife Management* 55:705-715.
- Skalski, J. R. 1992. Sample size calculations for normal variates under binomial censoring. *Biometrics* 48:877-882.
- Skalski, J. R., W. H. Pearson, and C. I. Malme. 1992. Effects of sound from a geophysical device on catch-per-unit-effort in a hook and line fishery for rockfish (*Sebastes* spp.). *Canadian Journal of Fisheries and Aquatic Sciences* 49:1357-1365.
- Bergh, M. O., E. K. Pikitch, J. R. Skalski, and J. R. Wallace. 1990. The statistical design of comparative fishing experiments. *Fisheries Research* 9:143-163.
- Skalski, J. R. 1990. A design for long-term status and trends monitoring. *Journal of Environmental Management* 30:139-144.
- Thomas, J. M., L. A. Athey, and J. R. Skalski. 1990. Statistical approaches to screening hazardous waste sites for toxicity. In *Waste Testing and Quality Assurance, Second Volume*, D. Friedman (ed.). American Society of Testing Materials, STP 106, pp. 140-163.
- Carlisle, D. W., J. R. Skalski, J. E. Bother, J. M. Thomas, and V. I. Cullivan. 1989. Determination of ecological scale. *Landscape Ecology* 2:203-213.
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- Dauble, D. D., R. H. Gray, J. R. Skalski, E. W. Lusty, and M. A. Simmons. 1985. Avoidance of water-soluble fraction of coal liquid by fathead minnows. *Transactions of the American Fisheries Society* 114:754-760.
- Skalski, J. R. 1985. Construction of costs functions for tag-recapture research. *Wildlife Society Bulletin* 3:273-283.
- Thomas, J. M., J. R. Skalski, D. F. Cline, M. C. McShane, J. C. Simpson, W. E. Miller, S. A. Peterson, C. A. Callahan, and J. C. Greene. 1986. Characterization of chemical waste site contamination and its extent using bioassays. *Society of Toxicology and Environmental Chemistry* 5:487-501.
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- Skalski, J. R., M. A. Simmons, and D. S. Robson. 1984. The use of removal sampling in comparative censuses. *Ecology* 65(3):1006-1015.

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- Skalski, J. R., D. S. Robson, and C. L. Matsuzaki. 1983. Competing probabilistic models for catch-effort relationships in wildlife censuses. *Ecological Modeling* 12:299-307.
- Skalski, J. R., D. S. Robson, and M. A. Simmons. 1983. Comparative census procedures for animal abundance using single mark-recapture methods. *Ecology* 64(4):752-760.
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- Skalski, J. R., and B. J. Verts. 1981. Dynamics of a transferring polymorphism in a population of *Sylvilagus nuttallii*. *Oecologia* 49:329-332.
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Book Reviews:

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