

US EPA ARCHIVE DOCUMENT

Chapter VI. Bibliography

- Ahuja, L.R., A.N. Sharpley, M. Yamamoto, R.G. Menzel. 1981. The depth of rainfall-runoff-soil interactions as determined by ³²P. *Water Resources Research*. 17(4):969-974.
- Ahuja, L.R. 1986. Characterization and modeling of chemical transfer to runoff. *Advances in Soil Science* 4:149-188.
- Ahuja, L.R. 1982. Release of a soluble chemical from a soil to runoff. *Transactions of the ASCE* 25:948-953.
- Ahuja, L.R. and O.R. Lehman. 1983. The extent and nature of rainfall-soil interaction in the release of soluble chemicals to runoff. *J Environ Qual* 12:34-40.
- Banks, R.B. 1975. Some features of wind action on shallow lakes. *J Environ Engineering Division, ASCE* 101(E5):813-827.
- Best, L., R. Whitmore, G. Booth. 1990. Use of cornfields by birds during the breeding season: The importance of edge habitat. *Am Midl Nat* 123:84-99.
- Burns, L.A. 1985. Models for predicting the fate of synthetic chemicals in aquatic ecosystems, in: *Validation and predictability of laboratory methods for assessing the fate and effects of contaminants in aquatic ecosystems*, ASTM STP 865, T.P. Boyle, ed., American Society of Testing Materials, Philadelphia, pp. 176-190.
- Burns, L.A. 1997. *Exposure Analysis Modeling System (EXAMS II) Users Guide to Version 2.97.5*. EPA/600R-97/047, U.S. Environmental Protection Agency.
- Burns, L.A. 2000. *Exposure Analysis Modeling System (EXAMS) Users Manual and System Documentation*. EPA/600/R-00/081, U.S. Environmental Protection Agency.
- Burns, L.A., D.M. Cline, R.P. Lassiter. 1982. *Exposure Analysis Modeling System (EXAMS): User Manual and System Documentation*. EPA/600/3-82-023, U.S. Environmental Protection Agency.
- Carsel, R.F., J.C. Imhoff, P.R. Hummel, J.M. Cheplick, A.S. Donigan Jr. 1997. *PRZM-3, A Model for Predicting Pesticide Fate in the Crop Root and Unsaturated Soil Zones: User Manual for Release 3.0*. National Exposure Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Athens, GA.
- Carsel, R.F., C.N. Smith, L.A. Mulkey, J.D. Dean, P. Jowise. 1984. *Users Manual Pesticide Root Zone Model (PRZM)*. Rep. EPA/600/3-84-109. U.S. Environmental Protection Agency, Athens, GA.

Cronshey, R.G. 1983. Discussion of "Antecedent Moisture Condition Probabilities." J Irrigation Drainage Engineering 109(2):296-299.

Cusler, E.L. 1984. Diffusion: Mass transfer in fluid systems. New York, NY: Cambridge University Press.

Donigan, A.S., H.H. Beyerlein, H.H. Davis, N.H. Crawford. 1977. Agricultural Runoff Management (ARM) Model, Version II, Refinement and Testing. Rep. EPA/600/3-77-08. U.S. Environmental Protection Agency, Athens GA.

Driver, C.J., M.W. Ligothe, P. Van Voris, B.D. McVeety, D.B. Brown. 1991. Routes of uptake and their relative contribution to the toxicologic response of northern bobwhite (*Colinus virginianus*) to an organophosphate pesticide. Environ Toxicol Chem 10:21-33.

ECOFRAM, Terrestrial Workgroup. 1999. ECOFRAM Terrestrial Draft Report. May 10, 1999. www.epa.gov/oppefed1/ecorisk/index.htm

ECOFRAM, Aquatic Workgroup. 1999. ECOFRAM Aquatic Report. May 4, 1999. www.epa.gov/oppefed1/ecorisk/index.htm

Edwards, W.M., M.J. Shipitalo, R. Lai, L.B. Owens. 1997. Rapid changes in concentration of herbicides in corn field surface depressions. J Soil Water Conservation 52(4):277-281.

FIFRA Scientific Advisory Panel. 1996a. A set of scientific issues being considered by the Agency in connection with EPA's ecological risk assessment of carbofuran flowable products. <http://www.epa.gov/oppefed1/ecorisk/carbofur.htm>

FIFRA Scientific Advisory Panel. 1996b. A set of scientific issues being considered by the Agency in connection with EPA's corn cluster ecological risk assessment. <http://www.epa.gov/oppefed1/ecorisk/sapreprt.htm>

FIFRA Scientific Advisory Panel. 2000. A set of scientific issues being considered by the Environmental Protection Agency regarding: Session I. Implementation plan for probabilistic ecological assessment: a consultation.

FIFRA Scientific Advisory Panel. 2001. A set of scientific issues being considered by the Environmental Protection Agency regarding: Probabilistic models and methodologies: advancing the ecological risk assessment process in the EPA Office of Pesticide Programs. <http://www.epa.gov/scipoly/sap/2001/march/march132001.pdf>

Frere, M.H., J.D. Ross, L.J. Lane. 1980. The nutrient submodel. In CREAMS: A field scale model for chemicals, runoff, and erosion from agricultural management systems. 65-87. W.G. Kniesel, ed. USDA Conservation Research Report 26. Washington, DC.

- Gray, D.D., Katz, P.G., deMonsabert, S.M., and Congo, N.P. 1982. Antecedent moisture probabilities. *J Irrigation Drainage Division, ASCE* 108(IR2):107-114.
- Haith, D.A. 1980. A mathematical model for estimating pesticide losses in runoff. *J Environ Qual* 9(3):428-433.
- Haith, D.A. 1986. Simulated regional variations in pesticide runoff. *J Environ Qual* 15(1):5-8.
- Haith, D.A. and R.C. Loehr. 1979. Effectiveness of Soil and Water Conservation Practices for Pollution Control, U.S. Environmental Protection Agency, EPA-600/3-79-106.
- Havis, R.N., R.E. Smith, D.D. Adrian. 1992. Partitioning solute between infiltration and overland flow. *Wat Resources Res* 28(10):2569-2580.
- Hawkins, R.H. 1978. Runoff curve numbers with varying site moisture. *J Irrigation Drainage Division, ASCE* 104(IR4):389-398.
- Hawkins, R.H., A.T. Hjelmfelt, A.W. Zevenberger. 1985. Runoff probability, storm depth, and curve number. *J Irrigation Drainage Engineering* 111(4):330-340.
- Hjelmfelt, A.T. Jr., K.A. Kramer, and R.E. Burwell. 1982. Curve numbers as random variables. *Proc. Int. Symp. on Rainfall-Runoff Modeling, Water Resour. Publ., Littleton CO.* 365-373.
- Hjelmfelt, A.T. 1983. Discussion of 'Antecedent Moisture Probabilities'. *J Irrigation Drainage Engineering* 109(2):300.
- Hjelmfelt, A.T. 1991. Investigation of curve number techniques. *J Hydraulic Engineering* 117(6):725-737.
- Hjelmfelt, A.T., D.A. Woodward, G. Conaway, et al. 2001. Curve Numbers, Recent Developments. *Proc. 29th Congress of the Intr. Assoc. for Hydraulic Research, Beijing, China, (CD ROM), Sept. 2001.*
- Hyer, K.E., G.M. Hornberger, J.S. Herman. 2001. Processes controlling episodic streamwater transport of atrazine and other agrichemicals in an agricultural watershed. *J Hydrology* 254:47-66.
- Knisel, W.G., F.M. Davis, and R. A. Leonard. 1994. GLEAMS VERSION 2.0 Part III: User Manual. USDA-ARS, Coastal Plain Experiment Station. Southeast Watershed Research Laboratory. Tifton, Georgia, 31793.
- Kottegoda, N.T. and N.E. Raiteri. 2000. Statistical modeling of daily streamflows using rainfall input and curve number technique. *J Hydrology* 234:170-186.

- Liss, P.S. 1973. Processes of gas exchange across an air-water interface. *Deep Sea Research* 20(3):221-238.
- Mackay, D. and A.T.K. Yuen. 1983. Mass transfer coefficient correlations for volatilization of organic solutes from water. *Environ Sci Technol* 17(4):211-217.
- McCuen, R.H. 2002. Approach to confidence interval estimation for curve numbers. *J Hydrologic Engineering* 7(1):43-48.
- Mineau, P. 2002. Estimating the probability of bird mortality from pesticide sprays on the basis of the field study record. *Environ Toxicol Chem* 21:1497-1506.
- Mironenko, E.V. and Y.A. Pachepsky. 1998. Estimating transport of chemicals from soil to ponding water. *J Hydrology* 208:53-61.
- Neitsch, S.L., J.R. Arnold, J.R. Kiniry, J.R. Williams, and K.W. King. 2002. Soil and Water Assessment Tool, Theoretical Documentation, Version 2000. Grassland, Soil, and Water Research Laboratory, Agricultural Research Service, USDA Temple Texas. Published by Texas Water Resources Institute, College Station, TX. TWRI Report TR-191.
- NRCS. 2003. National engineering handbook. Section 4: Hydrology. National Soil Conservation Service (formerly Soil Conservation Service), USDA, Washington, DC. Available online at <http://www.nrcs.usda.gov/technical/ENG/neh.html>
- Ponce, V.M. and R.H. Hawkins. 1996. Runoff curve number: Has it reached maturity? *J Hydrologic Engineering* 1(1):11-19.
- Ralliston, R.E. and R.C. Cronshey. 1979. Discussion of "Runoff Curve Number with Site Varying Moisture" by R.E. Hawkins. *J Irrigation Drainage Division, ASCE* 105(IR4):439-441.
- Ruddy, B.C. and K.J. Hitt. 1990. Summary of selected characteristics of large reservoirs in the United States and Puerto Rico, 1988. U.S. Geological Survey Open File-Report 90-163, Denver, CO.
- Schwarzenbach, R.P., P.M. Gschwend, D.M. Dieter. 1993. Environmental organic chemistry. New York, NY: John Wiley & Sons.
- Snyder, I.K. and D.A. Woolhiser. 1985. Effect of infiltration on chemical transport into overland flow. *Transactions of the ASAE* 28:1450-1457.
- Steenhuis, T.S. and M.F. Walter. 1980. Closed form solution for pesticide loss in runoff water. *Transactions of the ASAE* 23:615-628.
- U.S. Department of Agriculture (USDA). 1982. SCS Agriculture Handbook Number 590: Ponds - Planning, Design, Construction.

U.S. Department of Agriculture (USDA). 1997. SCS Agriculture Handbook Number 590: Ponds - Planning, Design, Construction (Revised). 51 pp.

U.S. Environmental Protection Agency (USEPA). 1993. Wildlife Exposure Factors Handbook. EPA/600/R-13/187a, Office of Research and Development, Washington, DC.

U.S. Environmental Protection Agency (USEPA). 1997. Exposure Factors Handbook: Update EPA/600/P-96/002FA, National Center for Environmental Assessment, Office of Research and Development, Washington, DC.

U.S. Environmental Protection Agency (USEPA). 1998. Chapter 3: Watershed drainage area to volume overview. *In* Proposed methods for basin-scale estimation of pesticide concentrations in flowing water and reservoirs for tolerance reassessment. FIFRA SAP July 29-30, 1998. www.epa.gov/oscpmont/sap/1998/index.htm

U.S. Environmental Protection Agency (USEPA). 1999. Farm Food Chain Module: Background and Implementation for the Multimedia, Multipathway, and Multiple Receptor Risk Assessment (3MRA) Model for HWIR 99. Office of Solid Waste, Washington, DC.

U.S. Environmental Protection Agency (USEPA). 2000a. A progress report for advancing ecological assessment methods in OPP: A consultation with the FIFRA Scientific Advisory Panel. Overview Document. <http://www.epa.gov/oscpmont/sap/2000/probover.pdf>

U.S. Environmental Protection Agency (USEPA). 2000b. Technical progress report of the implementation plan for probabilistic ecological assessments: Aquatic systems. <http://www.epa.gov/oscpmont/sap/2000/april/probaq.pdf>

U.S. Environmental Protection Agency (USEPA). 2000c. Policy for Estimating Environmental Concentrations for Pesticides Used on Rice. Water Quality Technical Team Memorandum. Environmental Fate and Effects Division, Office of Pesticide Programs, Washington, DC.

U.S. Environmental Protection Agency (USEPA). 2002. Pesticide Root Zone Model (PRZM) Field and Orchard Crop Scenarios: Standard Procedures for Conducting Quality Control and Quality Assurance. Internal Environmental Fate and Effects Division document. November 15, 2001. 27 pp.

Vanderborght, J.P. and R. Wollast. 1977. Mass transfer properties in sediments near the benthic boundary layer. In : J.C.J. Nihoul, ed. Bottom Turbulence. Proceedings of the 8th International Liege Colloquium on Ocean Hydrodynamics. Elsevier Scientific Publishing Co., Amsterdam, p. 209-219.

Van Mullem J.A., D.E. Woodward, R.H. Hawkins, A.T. Hjelmfelt, Q.D. Quan. 2002. Runoff curve number method: Beyond the handbook, 2002, Second Federal Interagency Hydrologic Modeling Conference, Las Vegas, NV.

Vose, D. 1996. Quantitative risk analysis: A guide to Monte Carlo simulation modeling. New York, NY: John Wiley and Sons Publishers.

Wallach, R., W.A. Jury, W.F. Spencer. 1980. Modeling the losses of soil-applied chemicals in runoff: Lateral irrigation versus precipitation. *Soil Science Society of America J* 52:605-612.

Wallach, R., G. Grigorin, J. Rivlin. 2001. A comprehensive mathematical model for transport of soil-dissolved chemicals by overland flow. *J Hydrology* 247:85-89.

Wallach, R. and van Genuchten. 1990. A physically based model for predicting solute transfer from soil solution to rainfall-induced runoff water. *Wat Resources Res* 26(9):2119-2126.

Wauchope, R.D., H.R. Summer, C.C Truman, et al. 1999. Runoff from a Cornfield as affected by tillage and corn canopy: A Large-scale simulated rainfall hydrologic data set for model testing. *Wat Resources Res.* 35(9):2881-2885.

Wilcox, B.P., W.J. Rawls, D.L. Brakensiek, and R. Wright. 1990. Predicting Runoff from rangeland catchments. *Wat. Resources Res.* 26(10):2401-2410.

Young, D.F., I. Kennedy, R.D. Wauchope, and J.F. Sheridan. 2002. The PRZM-EXAMS Pesticide Aquatic Exposure Model: Potential Improvements. 10th IUPAC International Congress on the Chemistry of Crop Protection, Basel, Switzerland, August 2002.

Yulianti, J.S. and B.J. Lence. 1999. Parameter uncertainty in rainfall-runoff modeling for use in hydraulic design. *J Am Wat Resources Assoc* 35(2):245-251.

Zhang, X.C., D. Norton, M.A. Nearing. 1997. Chemical transfer from soil to surface runoff. *Wat Resources Res* 33(4):809-815.

Zhang, X.C., D. Norton, T. Lei, M.A. Nearing. 1999. Coupling mixing zone concept with convective-diffusion equation to predict chemical transfer to surface runoff. *Transactions of the ASAE* 42(4):987-994.