

Daniel M. Stout II, Biological Scientist, in EPA's National Exposure Research Laboratory

Exposure Methods and Measurements Division

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Area of Expertise: Daniel's research focuses on the behavior of pesticides, primarily insecticides, following their application in the residential environment and the development of measurement tools to determine the potential for human exposures. Emphasis is placed on advancing both measurement technology and analytical methodology to understand residential fate and transport issues as they relate to exposure and minimizing potential risks. In addition, Daniel's work has contributed towards the national bed bug epidemic and associated misuse of pesticides in the residential environment as well as promoting the principal of pesticides safety and integrated pest management.

Select Publications:

Deziel, N. C.; S. M. Viet; J. W. Rogers; D. E. Camann; D. A. Marker; M. S. Heikkinen; A. Y. Yau; D. M. Stout; M. Dellarco. Comparison of Wipe Materials and Wetting Agents for Pesticide Residue Collection from Hard Surfaces. *SCI. TOTAL ENVIRON.* 409(20):4442-4448, (2011).

Stout II, Daniel M.; Bradham, Karen D; Egeghy, Peter P.; Jones, Paul A.; Croghan, Carry W.; Ashley, Peter A.; Pinzer, Eugene; Friedman, Warren; Brinkman, Marielle C.; Nishioka, Marcia G.; Cox, David C. 2009 American Healthy Homes Survey: A national study of residential pesticides measured from floor wipes. *Environ. Sci. Technol.*, 2009, 43 (12), pp 4294–4300.

Starr, J.; Graham, S.; Stout II, D. M.; Andrews, K.; Nishioka, M. 2008 Pyrethroid pesticides and their metabolites in vacuum cleaner dust collected from homes and day-care centers *Environmental Research*, 108(3): 271-279.

Morgan M, Stout D, Barr, D. 2008. Pilot study of the potential for human exposures to pet-borne diazinon residues following lawn applications in North Carolina. *Environmental Research*. 107: 336-342.

Egeghy P, Sheldon L, Fortmann R, Stout D, Tolve N, Cohen Hubal E, Melnyk L, Morgan M., Jones P, Whitaker D., Croghan C., and Coan A. 2007. "Important exposure factors for children: an analysis of laboratory and observational field data characterizing cumulative exposure to pesticides." EPA 600/R-07/013.

Stout II, D. M.; Mason, M.A. 2003 The distribution of chlorpyrifos following a crack and crevice type application in the US EPA indoor air quality research house. *Atmospheric Environment*, 37, 5539-5549.

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Education:

- Post-Doctoral Fellow, USEPA, ORD/NERL, RTP, NC, 2000
- Ph.D., Entomology, North Carolina State University, 1998
- M.S., Entomology, North Carolina State University, 1993
- B.S., General Agriculture, Mississippi State University, 1987

Professional Experience:

- Research Biologist, USEPA, ORD, NERL, RTP, NC 2000-present
- Environmental Health Scientist, USEPA, ORD, NERL, Postdoctoral Research Program, RTP, NC 1998-2000