

Journal (in review): 1  
Journal (to be submitted): 5  
Posters: 3  
Presentations: 6

**Paper in Review**

Wolfe, A. K. and V. H. Dale. "Using a Delphi Approach to Define Land-Management Categories and to Integrate Science and Practice" **J. of Environmental Management**.

*Significance:* This overview article summarizes the results from our use of a Delphi approach to identify a suite of land-use categories acceptable within and among two diverse groups of experts. These groups are SEMP ecological indicator/ecological threshold researchers and Fort Benning resource managers. The article's significance is two-fold: (a) it describes an approach that proved effective in achieving consensus, thereby helping to integrate the best available science into the practice of resource management; (b) it highlights the evolution of a land-management category matrix that identifies discrete land-management categories.

*Submitted:* May 2004; revision underway and to be resubmitted in February 2005

**Papers in Preparation:**

Baskaran, L. and Dale, V.H. Mapping land management categories: An application to west central Georgia

*Significance:* The procedure for mapping land management categories is developed and applied.

*Status:* Maps are being developed in conjunction with discussions with Fort Benning resource managers

Dale, V.H., Peacock, A., Garten, C., and Sobek, E. Contributions of soil, microbial, and plant indicators to land management of Georgia pine forests. **Ecological Applications**.

*Significance:* A comparison of indicators of soil, plant and microbial condition.

*Status:* Draft being revised by coauthors

Dale, VH, AK Wolfe, and L Baskaran. Developing Ecological Indicators that are Useful to Decision Makers. In proceedings of the conference on Biodiversity: Science and Governance, Paris, France, January 24-28, 2005.

Peacock, A, Dale, V.H, Arthur, T. and others. Multivariate analysis of indicators of land management.

*Significance:* Statistical methods used to determine indicators

*Status:* Data assimilated, statistical analyses being evaluated. Target submission in April 2005.

Peacock, A. Ecological Indicator Development, Integration and Knowledge Mapping" Ph.D. Dissertation, The University of Tennessee Department of Biosystems Engineering.

*Significance:* Statistical analysis of the SEMP data

*Status:* Data compiled, initial statistics work completed.

Wolfe, A. K. and V. H. Dale. Tentative title: "Science versus practice: Using a Delphi approach to reconcile world views." Target journal: **Human Organization**. In preparation

*Status:* Draft completed; target date for submission February 2005.

*Significance:* This article will emphasize the process we used to achieve consensus among and within groups. It will place our work in the context of other methods, approaches, and frameworks for considering the integration (or application) of science in decision making.

Wolfe, A. K. and V. H. Dale. Tentative title: "Ecological indicators and land management: are they truly compatible?" Target journal: **Ecological Indicators**.

*Status:* Target date for submission April 2005

*Significance:* This paper will focus on the substance of our findings, rather than on the Delphi approach. These findings bring into question the assumption that ecological indicators are valuable

and useful to land managers. The context in which land managers like those at Fort Benning operate, precludes the use or usefulness of a number of indicators. The article will conclude by suggesting that ecological indicators be developed within the contexts they are intended to be used, and not simply "transferred" to target users.

**Web site developed:**

<http://www.esd.ornl.gov/programs/SERDP/Integration/sip.html>