

Robert L. Nielsen

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EDUCATION

Degree Year Institution

B.S. 1977 Univ. Nebraska
M.S. 1980 Univ. Minnesota
Ph.D. 1982 Univ. Minnesota

EMPLOYMENT HISTORY

Assistant Professor – Purdue Univ. - Sep '82 thru Jun '88
Associate Professor - Purdue Univ. - Jul '88 thru Jun '95
Full Professor - Purdue Univ. - Jul '95 thru present
Appointment FTE: 85% Extension, 15% Research

PROFESSIONAL ASSOCIATIONS

- American Soc. of Agronomy (1977 to date)
- Crop Sci. Soc. of America (1977 to date)
- Purdue Univ. Coop. Extension Specialists Assoc. (1982 to date)

AWARDS

- 2010. Certificate of Distinction. Purdue Agricultural Alumni Assoc. In recognition of outstanding service to Indiana agriculture.
- 2009. Agronomic Extension Education Award. American Society of Agronomy. In recognition of outstanding agronomic Extension education efforts.
- 2008. *Dean's Team Award*. Purdue College of Agriculture. Multiple collaborators recognized for the success of the Purdue Crop Diagnostic Training & Research Center .
- 2001. *Crop & Soils Merit Award*. Indiana Crop Improvement Association.
- 1999. *Eric G. Sharvelle Distinguished Extension Specialist Award*. Purdue Univ. Coop. Extension Service.
- 1995. *Werner L. Nelson Award for Diagnosis of Yield-Limiting Factors*. American Society of Agronomy.

RESPONSIBILITIES AT PURDUE:

Extension:

My responsibilities emphasize the transfer of applicable knowledge and information about corn production issues to Indiana agricultural clientele. Knowledge and information transfer is accomplished by a variety of means, including farmer and agribusiness meetings, summer field days, newsletters, news releases, news media interviews, phone calls, and field problem troubleshooting. Since 1983, I have taught in over 1400 Extension education programs reaching a total of 159,000 individuals throughout Indiana, the U.S. and other countries. Much of my Extension efforts are focused on the delivery of information via Internet communication media. Current areas of educational programming include a) Corn growth and development, b) Stand establishment concerns in corn, c) Mitigating the downside risks of continuous corn, d) Yield-RLNielsen vitae, pg 2

limiting factors in corn production, e) Crop problem troubleshooting, f) nitrogen management for corn, and g) Technology transfer & distance education via the World Wide Web. The primary Web-based outlet for my corn Extension information is the Corn Growers' Guidebook (<http://www.kingcorn.org>). The estimated annual number of page "accesses" to the entire KingCorn Web site was 400,000 for the 2009 calendar year. The single-most popular feature of KingCorn is the Chat 'n Chew Café (<http://www.kingcorn.org/cafe>) where users can find links to the most up-to-date news articles and information on crop production from around the country. The Café totaled 147,000 page "accesses" in 2009.

Recent Extension publications:

In addition to the following Extension publications, I have authored over 380 hardcopy newsletters since 1983 and over 550 on-line newsletter articles since 1995, have been featured in over 600 news releases and farm magazine articles since 1983, have conducted over 170 radio and television interviews since 1983.

1. Major contributor. *Corn & Soybean Field Guide, 2010 Edition*. 2010. Purdue University Cooperative Extension Service Publication ID-179. (Sales of nearly 50,000).
2. Major contributor. *Purdue Crop Cost & Return Guide, 2010 edition*. Purdue University Cooperative Extension Service Publication ID-166-W.

Research:

My minor research appointment limits the number of research topics that I am involved with. Currently, my effort is concentrated in collaborative nitrogen management research with Dr's Jim Camberato and Brad Joern in the Purdue Agronomy Department.

Recent Grants:

1. Indiana Corn Marketing Council. Evaluating Region and Soil Specific Nitrogen Recommendations for Corn Cropping Systems in Indiana. Jim Camberato, Bob Nielsen, Brad Joern, and Luc Valentin. \$93,600 for 2008-2010.
2. Purdue Mission-Oriented Grant Program. The Next Step: Implementing the Use of Optical Crop Sensors Fine-Tuning Nitrogen Rate Decisions in Corn. James J. Camberato, Robert L. Nielsen, and Brad C. Joern. Total of \$25,000 for 2009.

Recent Research Publications, Abstracts, Conference Proceedings:

1. Nielsen*, R.L. (Bob), Eric White, Jacky Payne, and Norman Larson. 2008. Planting Field-Scale Research Plots with the Aid of GPS-Enabled Assisted Steering. *Agron J.* 100:777-778.
2. Johnson*, W.G, Ott, E.J., Gibson, K.D., Nielsen, R.L., Bauman, T.T. 2007. Influence of nitrogen application timing on low density giant ragweed (*Ambrosia trifida*) interference in corn. *Weed Technol.* 21(3): 763-767