

Belle H. Wallace Cochrane

CASILLA 6329 • SANTA CRUZ • BOLIVIA
E-MAIL WALLACEB@ECN.PURDUE.EDU

EDUCATION

Purdue University 1997- 2001 West Lafayette, IN
Master of Science in Agronomy, thesis title: Evaluation of Soil Conservation at Plot and Field Scales Using Various Soil Amendments

Purdue University 1993 - 1996 West Lafayette, IN
Bachelor of Science, Natural Resources and Environmental Science, specializing in soil conservation

PROFESSIONAL EXPERIENCE

USDA-ARS National Soil Erosion Research Laboratory, 1993-2001
W. Lafayette, IN
Research Assistant

- *Universidade Federal de Santa Maria and Purdue U. Exchange Project, 1999-2000*
Santa Maria, Brazil
Conducted a field investigation of wallboard by-product and polyacrylamide of effects on soil erosion by water as part of a 6-month exchange program.
- *Auburn University and Texas A&M Project, 1999-2000*
College Station, TX
Conducted a rainfall simulator study assessment of phosphorus runoff on chicken farm using alternative amendments. EPA mandated determination of site phosphorus runoff levels in which soil and water samples for analysis and interpretation in various locations.
- *Middlefork Synthetic Gypsum Project, 1997- 1998*
Carlisle, IN
Headed research portion of field study using by-product gypsum as a soil amendment to control water erosion on agriculture lands as part of thesis. Involved in all stages of research
- *Integrated Pest Management Project, 1995*
W. Lafayette, IN
Field study assessment of tillage type on soil erosion using a rainfall simulator on various long-term plots designed by Purdue University.
- *Tepetate Project , summer 1994*
Texacoco, Mexaco
Collected for analysis samples of tepetate soils from the volcanic region of Mexico.

PUBLICATIONS

- Wallace, B. H. and L. D. Norton. 1999. Erosion Control Through Use of Synthetic Gypsum. International Soil Conservation Organization, W. Lafayette, IN, USA. May 1999.
- Wallace, B. H.; F. E. Eltz; J. M. Reichert; and L. D. Norton. 2001. Conserving Topsoil in Southern Brazil with Polyacrylamide and Gypsum. American Society of Agriculture Engineers, Honolulu, HI, January 2001.
- Wallace, B.H. 2001. Evaluation of Soil Conservation at Plot and Field Scales Using Various Soil Amendments. Master of Science Thesis, Purdue University, West Lafayette, IN. May 2001.
- Wallace, B. H.; F. E. Eltz; J. M. Reichert; and L. D. Norton. 2001. Evaluation of Surface Crusting on Brazilian Typic Paleudalf using Amendments. Third International Conference on Land Degradation, Rio De Janeiro, Brazil. September 2001

PROFESSIONAL MEMBERSHIPS

Soil and Water Conservation Society
American Society of Agronomy

LANGUAGES AND COMPUTER KNOWLEDGE

English: first language

Portuguese: advanced speaking

Spanish: intermediate speaking and learning

Operating systems: Windows, UNIX, DOS

Geographic Information System: Arcview, ArcInfo, IDRISI, Farmworks, Street Atlas.

Various Specialty Programs: word processing programs, SAS, Sigmaplot, Tablecurve, and various e-mail programs.

VOLUNTEER HISTORY

Purdue University Springfest, one week every year from 1995-2000 W. Lafayette, IN
Educational festival in which the importance of conservational practices are taught to all ages

Girls Science Summer Camp, one week every year; since 1999 W. Lafayette, IN
Teach workshop about science and soils to teens as a role model woman scientist.

Farm Progress Show, one week every year, since 1998 Indianapolis, IN
Education convention about various aspects of agriculture taught to all ages.

International Soil Conservation Organization, 1999 W. Lafayette, IN
Assisted in education tours to professionals attending the conference.