

# Troy Bauder

## Curriculum Vitae

### RANK:

Research Scientist

### DATE OF APPOINTMENT:

2000

### EDUCATION:

M.S. 1997 Colorado State University - Soil Science

B.S. 1993 Colorado State University - Agronomy

### PREVIOUS RELATED EMPLOYMENT:

Assistant Extension Water Quality Specialist/Research Associate, Dept. of Soil & Crop Sci., Colorado State University (1996 – 2000)

Graduate Research Assistant, Dept. of Soil & Crop Sci., Colorado State University (1986-1991)

Student Technician, Dept. of Soil & Crop Sci., Colorado State University (1991-1994)

Operating Partner, Bauder Farms, Sterling, Colorado (1988-present)

### CERTIFICATIONS:

Certified Crop Adviser

### PROFESSIONAL AFFILIATIONS:

American Society of Agronomy

Soil and Water Conservation Society

### SELECTED RESEARCH PROJECTS:

- Refining nitrogen credits from irrigation water nitrate
- Aquifer sensitivity/vulnerability to nitrate contamination
- Development of best management practices for corn production
- Evaluation of the Phosphorus Index for predicting P losses from irrigated crop fields
- Survey of irrigation management practices to evaluate constraints to BMP adoption
- Evaluation of the impacts of waste drilling fluids on physical and chemical soil properties and crop production

### **SELECTED SERVICE AND OUTREACH ACTIVITIES:**

- Help coordinate three-year BMP education and information program for corn producers with Colorado Corn (CCGA)
- Serve on the Board of the Colorado Certified Crop Adviser program (ex-officio) and chair the exam committee
- Serve as Extension Coordinator for the Department of Soil and Crop Sciences, CSU.
- Serve on planning committee for South Platte Forum

### **SELECTED PUBLICATIONS:**

Bauder, T.A., K.A. Barbarick, J.F. Shanahan, P.D. Ayers, and P.L. Chapman. 1999. Drilling Fluid Effects on Crop Growth and Iron and Zinc Availability. *J. Environ. Qual.* 28:744-749.

Bauder, T.A., S.K. McDonald and R.M. Waskom. 2001. Pesticide Record Book for Private Applicators. Colorado State University Cooperative Extension Publication #XCM-202.

T.A. Bauder & R.M. Waskom. Improving Profitability and Water Quality: Irrigation Water Nitrate Crediting. 1999. *Ag. Chemicals and Groundwater Protection Fact Sheet #17.*

T.A. Bauder, R.M. Waskom, M. Frasier, D. Hoag. Water Quality Best Management Practices: What are Colorado Producers Doing?. 1999. *Ag. Chemicals and Groundwater Protection Fact Sheet #18.*

Frasier, W.M., R.M. Waskom, D.L. Hoag and T.A. Bauder. 1999. Irrigation Management in Colorado - Survey Data and Findings. Colorado Agricultural Experiment Station Technical Report TR 99-05.

Waskom, R.M., W.M. Frasier, T.A. Bauder and D.L. Hoag. 1999. Irrigation Management Practices: What are Colorado Producers doing? *Colorado Water*, Vol. 16 No.3:16-19. June 1999.