

## CURRICULUM VITAE

**Name:** David G. Holm

**Current Position:** Professor of Horticulture (Potato Breeding)  
San Luis Valley Research Center  
Colorado State University  
0249 East Road 9 North  
Center, CO 81125  
Phone: 719-754-3594; Fax: 719-754-2619  
e-mail: spudmkr@lamar.colostate.edu

**Education:** **Ph.D.** [Major: Horticultural Science, Minor: Supporting (Plant Physiology and Plant Breeding), Collateral Field: Statistics], University of Minnesota, 1977  
**M.S.** (Plant Science), University of Idaho, 1974  
**B.S.** (Plant Science), University of Idaho, 1972

### Professional Experience:

- **Professor**, Colorado State University, Department of Horticulture and Landscape Architecture, San Luis Valley Research Center, 1996-present.
- **Superintendent**, Colorado State University, San Luis Valley Research Center, 1983-97.
- **Potato Breeding and Selection Project Leader** (COLO0712 - “Development of New Potato Cultivars for Colorado via Germplasm Enhancement and Evaluation), Colorado State University, San Luis Valley Research Center, 1982-present.
- **Associate Professor**, Colorado State University, Department of Horticulture, San Luis Valley Research Center, 1992-96.
- **Acting Superintendent**, Colorado State University, San Luis Valley Research Center, 1982-83.
- **Assistant Professor**, Colorado State University, Department of Horticulture, San Luis Valley Research Center, 1978-92.
- **Junior Scientist**, University of Minnesota, Department of Horticultural Science, 1977-78. Assisted in managing the “Cultural and Physiological Studies on Vegetable Crops and Potatoes” project.
- **Research Assistant**, University of Minnesota, Department of Horticultural Science, 1974-77; “Cultural and Physiological Studies on Vegetable Crops and Potatoes” project.
- **Graduate Assistant**, University of Idaho, Department of Plant and Soil Science, 1972-74; “Development of Improved Disease Resistant Potato Varieties” project.

### Membership in Professional Societies and Committees:

- Potato Association of America
- European Association for Potato Research
- American Society for Horticultural Science
- WCC-27 (Western Regional Coordinating Committee for Potato Variety Development)
- Southwest Regional Potato Cultivar Development Working Group

### Honors and Awards:

Alpha Zeta (1970), Agronomy Student Award (1971), Phi Sigma Society (1971), Sigma Xi (1978), Gamma Sigma Delta (1978), Gamma Sigma Delta Faculty Research Award of Merit (2000).

## Major Research Accomplishments:

Many of these cultivars and clonal selections have significantly reduced nitrogen and fungicide input requirements.

- Potato cultivars and clonal selections released by the Colorado Potato Breeding and Selection Program or in cooperation with other agencies accounted for 36% of the 12,345 acres of Colorado certified seed accepted for certification in 2004. Advanced Colorado selections accounted for another 20% of the seed acreage. Colorado releases accounted for 45% of the 65,000 acres of 2004 fall potatoes planted in Colorado.
- Ten potato cultivars have been released. They are Sangre(1982), Ute Russet (1986), Russet Nugget (1988), Chipeta (1993), Keystone Russet (2000), Silverton Russet (2000), Rio Grande Russet (2005), Colorado Rose (2005), Mountain Rose (2005), and Purple Majesty (2005).
- Cooperated with other agencies in the release of Gemchip (1989), Frontier Russet (1990), Ranger Russet (1991), Century Russet (1995), and Russet Legend (1999). Russet Legend was selected from a cross of Century Russet and WNC672-2 made by the Colorado Potato Breeding and Selection Program in 1983.
- Clonal selections released by CSU include Sangre-Selection 10, 11, and 14 and Russet Norkotah-Selection 3 and Selection 8. Of the Russet Norkotah fall potato acreage in Colorado, 46% was planted to Colorado Russet Norkotah Selections 3 and 8.
- Many of these cultivars and clonal selections have significantly reduced nitrogen and fungicide input requirements.

**Publications:** Total 163: 2 theses, 18 refereed journal articles, 82 technical reports, 29 abstracts/proceedings, 24 extension articles, and 8 popular/trade articles.

## Selected Publications:

Essah, S. Y. C. and D. G. Holm. 2004. Response of three Colorado specialty potatoes to nitrogen application rate. Annual meetings of the Potato Association of America. August 8-12, 2004. Scottsbluff, Nebraska. [Abstract].

Holm, D. G. and P. F. Naranjo. 2004. 2003 Potato Breeding and Selection Research Report to the San Luis Valley Research Center Committee and the Colorado Potato Administrative Committees (Area II and III). 93pp. (Unpub).

Miller, J. C., Jr., D. C. Scheuring, J. W. Koym, and D. G. Holm. 2004. TX1523-1Ru/Y a.k.a. Sierra Gold: An early maturing yellow flesh Russet cultivar for the specialty market. Amer. J. Potato Res. 81: (In Press).

Sharma, N., H. A. Gruszewski, S. Park, D. G. Holm, J. M. Vivanco. 2004. Purification of an isoform of patatin with antimicrobial activity against *Phytophthora infestans*. Plant Phys. and Biochem. 42:647-655.

Tietz, M. E., Holm, D. G., Voss, R. E., Scheuring, D. C., Cisneros-Zevallos, L., Reyes, L. F., and Miller, J. C., Jr. 2003. Variation in anthocyanin accumulation in purple/red fleshed potato cultivars and selections under diverse environmental conditions. HortScience 38:1265 (Abstr.).

Voss, R. E., H. Phillips, M. Cantwell, D. Holm, C. Miller, H. Carlson, D. Kirby, R. Mullen, R. Novy, J. Nunez, K. Rykbost, A. Mosley, B. Charlton. 2004. Potato variety selections and development. In 2003 Potato Board Annual Report. California Potato Research Advisory Board. Dinuba, CA 93618. pp 9-68.