

CURRICULUM VITA

NAME: Ronald E. Voss

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CURRENT POSITION: Extension Vegetable Specialist and Manager, Specialty Crops Research Program, Univ. of California, Davis

EDUCATION:

B.Sc. University of Nebraska, 1964, Agriculture (Chemistry, Agronomy)
M.Sc. University of Nebraska, 1966, Agronomy (Soils)
Ph.D. Iowa State University, 1969, Agronomy (Soil fertility; statistics, plant physiology)

PROFESSIONAL POSITIONS:

Extension Vegetable Specialist, University of California. 1969-present. Potato, sweet potato, *Alliums*, general vegetables, small farms
Manager, Specialty Crops Research Program, University of California, 2001- present.
Director, Univ. of California Vegetable Research & Information Center. 1995-1998
Director, Univ. of California Small Farm Program, 1985-1995.
Program Director, Univ. of California Coop. Extension 1981-1989.
Assoc. Director for Agricultural Sciences, Agric Develop. Systems, UC-USAID(Egypt) 1980-81.
Lecturer in Vegetable Crops, University of California, Davis. 1977-present.
Visiting Fellow, Vegetable Crops Department, Cornell University. 1976-77.
Visiting Scientist, International Potato Center, Peru, South America. 1986-1987.

PROFESSIONAL SOCIETY MEMBERSHIPS, ACTIVITIES AND AWARDS:

Potato Association of America, 1970-present. Honorary Life Member Award, 2000.
President, 1989-90. Chair, Extension Section, 1974. Chair, Audit Committee, 1976. Outstanding Paper Award Committee, 2000.
American Society for Horticultural Science, 1970-present. Vice Pres, 1996-1998. Chair, International Topics for Concerned Horticulturists, 1994-95.
Amer. Society of Agronomy, 1964-present. NSF Visiting Scientist & Lecturer Award, 1971-72.
International Society for Horticultural Science, 1988-90.
Interamerican Society for Horticultural Science, 1998-present.

RESEARCH and EXTENSION EXPERIENCE:

Principal investigator on the following projects as UC extension specialist/researcher:

- Onion variety evaluation
- Onion seed quality
- Onion white rot resistance screening
- Screening and evaluation of world garlic germplasm collection.
- Genetic and virus fingerprinting of garlic
- Water and fertility management of garlic

- Spacing, population, time-of-planting, growth development, and time-of-harvest studies on garlic, potatoes, onions, and sweet potatoes.
- Potato breeding and variety development program.
- Cultural adaptation of new potato varieties.
- New and specialty potato production and marketing.
- Potato late blight resistance screening.
- Effects of time, rate, and method of nitrogen applications on potato quality, yield, and soil nitrate pollution potential.
- Pre-harvest, harvest and postharvest sources and causes of potato bruising.
- Effect of seed source on Russet Norkotah potato cultivar performance.
- Effect of potato virus Y on Russet Norkotah potato cultivar performance.
- Development of education strategy to deliver sustainable agriculture information to small and ethnic growers
- Factors determining successful Farmer's Markets
- Organizer of conferences of specialty crops, onion and garlic white rot, onion and garlic production and postharvest, potato production and postharvest, sweet potato production, challenges and opportunities for California agriculture

TEACHING EXPERIENCE:

Member of UCD Graduate Groups: Community Development, International Agricultural Development, Agronomy and Horticulture.

Seminar Series in Vegetable Crops: Current Issues in Vegetable Research, UC Davis Seminars and guest lecturers:

Topics: Vegetable Crops, agronomy, soils and plant nutrition, plant pathology, statistics, human nutrition, plant breeding and biometry, organic farming and gardening, education methodology, small-scale agriculture, urban agriculture, sustainable agriculture, niche and alternative agricultural systems.

Schools: Numerous U.S. universities and colleges and several international locations. (Egypt, Peru, Venezuela, Chile, Australia, Korea, Canada, Mexico, Russia, France, Italy, Spain, The Netherlands, China)

INTERNATIONAL EXPERIENCE:

Chile, 1977. Dehydrator onion production consultation.

Peru, 1979, 1982, 1987, 1999. Potato production consultation.

Egypt, 1978-1981. AID project development, horticulture and economics. Garlic research team leader. Assoc. Director – Horticulture. University – Ministry of Agriculture – USAID.

Senegal, 1983. USDA-AID project review, irrigation and crop production.

Mexico, 1992, 1995, 2000. Garlic production, seed production, disease management consultation. Soil fertility, plant nutrition of vegetables consultation.

Australia, 1992, 1997, 2002. Potato production consultation. Garlic production consultation. Potato breeding and variety development consultation.

Russia, 1993. Potato storage and production consultation. General vegetable production and marketing systems consultation. Transition to free enterprise system consultation.

Canada, 1994. Garlic transportation and storage consultation.

Venezuela, 1994. Potato and pepper production consultation. Project development, private enterprise.

Korea, 1997. Dehydration onion production and processing consultation.

- China, 2001. U.S . Dep't of Commerce. Consultation with small potato farmers and Chinese institutions in Beijing, Yunnan, Xinjiang Provinces.
- China 2001. 2001. Garlic and onion production consultation, Shandong Province.
- Egypt 2004. Consultant. El-Shams Project (Enhanced Livelihoods from Smallholder Horticultural Activities Managed Sustainably). Collaborative with CARE, Univ. of California, ACIDI-VOCA, Egypt MOA, and Nile Valley Group.
- China 2004. Consulting with PepsiCo on onion production in China.

Invited papers/lectures at International Conferences in:

- Korea – onion production
- Australia – garlic production, onion white rot disease
- Venezuela – onion and garlic seed production; Extension system organization
- Italy – potato virus
- China – Small Farms and Organic Agriculture
- China – Garlic Germplasm Evaluation
- Ecuador – Potato Late Blight

ADMINISTRATIVE EXPERIENCE:

- Director, University of California Vegetable Research & Information Center, 1995-1998
- Director, Small Farm Program, University of California. 1985-95
- Program Director, University of California Cooperative Extension, 1981-88
- Assistant Director, UC Cooperative Extension, 1975-76
- Associate Director, Agricultural Development Systems (Egypt), UC-USAID, 1980-81.
- USDA-CSRS Review Team Department of Vegetable crops, Cornell University and Department of Seed Science and Vegetable Crops, Geneva, New York Experiment Station, 1982.
- USDA-CSRS Review Team. IR-1, Potato Introduction Station and Program, Sturgeon Bay, Wisconsin, 1992.

RECENT PUBLICATIONS (Sample):

- Voss, R.E. 2004. Potato. In The Commercial Storage of Fruits, Vegetables, and Florist and Nursery Stocks. Agricultural Handbook Number 66. USDA, Beltsville, Md. <http://www.ba.ars.usda.gov/hb66/>. 5 pp.
- Dickie, R., R. Voss, G. Hong, M. Cantwell. 2004. Glycoalkaloid and chlorophyll changes in eight potato varieties exposed to light. In Abstracts, Amer. Soc. Hort. Sci. Conf. Austin, TX. July 2004. p764.
- Johnstone, M.R., R.E. Voss and H.W. Phillips. 2004. The response of California grown Russet Norkotah potatoes and its strains to N fertilization. In Proceedingd, Intl Soc Hort Sci Conf on Root and Tuber Crops. New Zealand, February 2004. 9 pp.
- Voss, R. 2004. A91556-1W(Ivory Rose) – Description and Management Guidelines. University of California website <http://vric.ucdavis.edu/veginfo/commodity/potato/ivoryrose.PDF>.
- Voss, R.E., M.Cantwell, H. Phillips, M. Hong. 2004. Garlic Germplasm Evaluation. Abstr. 4th International ISHS Symposium on Edible Alliaceae Program, Beijing, China. (Proceedings, In Press).
- Voss, R., H. Phillips, M. Cantwell, J. Nunez, H. Carlson, D. Holm, C. Miller Jr., A. Mosley, D. Kirby, R. Novy, K. Rykbost. 2004. Potato Variety Trials, 2003. California Potato Research Advisory Board, Dinuba, CA. pp.9-68
- Rykbost, K.A., S.R. James, A.R. Mosley, B.A. Charlton, D.C. Hane, E. Eldredge, R. Voss, R.H. Johansen, S.L. Love, and R.E. Thornton. 2003. Modoc: A Potato Variety with Bright Red Skin and Early Maturity for Fresh Market. Amer J. of Potato Res. 80:235-240.

- Hanson, B., D. May, R. Voss, M. Cantwell, R. Rice. 2003. Response of Garlic to Irrigation Water. *Agricultural Water Management* 58(2003) 29-43.
- Cantwell, M., R. Voss, M. Hong, D. May, B. Hanson. 2002. Fertilization and Irrigation Regimes Affect the Chemical Composition and Quality of Garlic at Harvest. *Hort Science*.
- Voss, R.E. 2002. Urban and Peri-Urban Agriculture in California. Proc. Of International Workshop on Organic and Green Food Production in Urban and Peri-Urban Areas. Ministry of Agriculture, People's Republic of China and Food and Agriculture Organization of the United Nations, Beijing, China, August 26-28, 2001. pp72-79.
- Coviello, R.L., W.E. Chaney, S. Orloff, R.M. Davis, FF. Laemmlen, R.E. Voss, B.B. Westerdahl, C.E. Bell, D.W. Cudney, S.A. Fennimore. 2002. UC IPM Pest Management Guidelines: Onion/Garlic. UC/DANR Publication 3339PS3A. 33 pp.
- Voss, R. 2001. CalWhite – Description and Management Guidelines. University of California website <http://vric.ucdavis.edu/veginfo/commodity/potato/calwhite.PDF>.
- Voss, R.2001. CalRed– Description and Management Guidelines. University of California website <http://vric.ucdavis.edu/veginfo/commodity/potato/calred.PDF>.
- Koike, S. T., R. F. Smith, R. M. Davis, J. J. Nunez, R. E. Voss. 2001 Characterization and Control of Garlic Rust in California. *Plant Disease*. 85:585-591.
- Voss, Ron. 2001. Onion Nutrient Guidelines. UC Vegetable Research and Information Center Website Publication. 1 page. http://vric.ucdavis.edu/veginfo/commodity/onion/onion_leaf_analysis.html.
- Koike, S. T., R.F. Smith, R.M. Davis, J.J. Nunez, R.E. Voss. 2001. Rust disease continues to threaten California garlic crop. *Calif. Agric.*, vol. 55, no. 5. pp 35-39.
- Rykbost, K.A., R.E. Voss, S.R. James, A.R. Mosley, B.A. Charlton, R.H. Johansen, S.L. Love and R.E. Thornton. 2001 Mazama: An Early Maturing, Bright Red-Skinned Cultivar for Fresh Market Use. *Amer. J. of Potato Research* 78:383-387.
- Rykbost, K.A., R.E. Voss, S.R. James, A.R. Mosley, B.A. Charlton, R.H. Johansen, S.L. Love and R.E. Thornton. 2001 Winema: An Early Maturing, High-Yielding Red-Skinned Cultivar for Fresh Market Use. *Amer. J. of Potato Research* 78:371-375.
- Koike, S.T., R.L. Smith, R. M. Davis, J.J. Nunez and R.E. Voss. 2001. Characterization and Control of a Severe Garlic Rust Outbreak in California. *Plant Disease* 85:585-591.
- Cantwell, M., R. Voss, B. Hanson, D. May. 2001. Water and Fertilizer Management for Garlic: Productivity, Nutrient and Water Use Efficiency, and Postharvest Quality. In *Fertilizer Research and Education Program Conference Proceedings*. Calif. Dept of Food and Agriculture. Pp. 26-29.
- Cantwell, M., R. Voss, B. Hanson, D. May, B. Rice. 2000. Water and Fertilizer Management for Garlic. In *Fertilizer Research and Education Program Conference Proceedings*. Calif. Dept of Food and Agriculture. Pp. 33-36.
- Voss, Ron and Keith Mayberry. 1999. Dehydrator Onion Production in California. UC/DANR Publication 7239. <http://anrcatalog.ucdavis.edu/pdf/7242.pdf>. 3 pp.
- Voss, Ron and Keith Mayberry. 1999. Fresh-Market Bulb Onion Production in California. UC/DANR Publication 7242. <http://anrcatalog.ucdavis.edu/pdf/7242.pdf>. 4 pp.
- Voss, Ron and Keith Mayberry. 1999. Green Onion Production in California. UC/DANR Publication 7243. <http://anrcatalog.ucdavis.edu/pdf/7243.pdf>. 3 pp.
- Voss, Ron, Mike Murray, Kent Bradford, Keith Mayberry and Ivan Miller. <http://anrcatalog.ucdavis.edu/pdf/8008.pdf>. 10 pp.
- Voss, R., H. Phillips, K. Brittan, H. Carlson, N. Garrison, M. Gaskell, J. Jimenez, D. Kirby, R. Molinar, J. Nunez, R. Smith, J. Valencia, G. Veerkamp. 1999. New specialty potato varieties give farmers growing and marketing options. *Calif. Agriculture*. Vol. 53(6):91-96.

- Rykbost, K.A., D. C. Hane, P. B. Hamm, R. Voss, and D. Kirby. 1999. Effects of Seedborne Potato Virus Y on Russet Norkotah Performance. *Amer. J. of Potato Res.* 75:91-96
- Voss, R., K. A. Rykbost, D. C. Hane, P. Hamm, D. Kirby. 1999. Effects of seedborne potato virus Y on Russet Norkotah performance. Abstract. 15th Triennial Conference of the European Association for Potato Research. EAPR, Sorrento, Italy. P385.
- Voss, R.E and Mike Murray. 1998. Onion and Garlic Seed Production Systems. Vegetable Research and Information Center Special Publication. Vegetable Crops Department, UC Davis. 6 pp.