



Horticultural Reviews

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HORTICULTURAL REVIEWS

Volume 36

edited by
Jules Janick
Purdue University

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Donald N. Maynard

Dedication: Donald N. Maynard

This volume of *Horticultural Reviews* is dedicated to the distinguished horticultural career of Professor Donald N. Maynard, who for over 50 years has excelled in research, teaching, and service as administrator, horticultural consultant, editor, and prolific author.

Don was born in Hartford, Connecticut, in 1932 and grew up on a farm in Portland, where he developed his interests in agriculture. As a youngster, he participated in 4-H club activities, including vegetable judging. He enrolled at the University of Connecticut in 1950, received a BS degree in Plant Science in 1954, and ever since has been an enthusiastic supporter of that institution. He then started graduate work in horticulture at North Carolina State University and was granted an MS degree in 1956. He then accepted a position as Instructor in Olericulture at the University of Massachusetts. He was promoted to Assistant Professor in Horticulture in 1962 while studying botany for his PhD degree, which was awarded in 1963. Professor Maynard was promoted to Associate Professor in 1967 and to Professor in 1972 in the Department of Plant and Soil Sciences. In 1979, he accepted the position of Chairman of the Department of Vegetable Crops at the University of Florida, Gainesville, and served a 5-year term. Thereafter, he assumed full-time duties as Professor until his retirement in 2003 at the Gulf Coast Research and Education Center at Bradenton. He continues in research and service as Professor Emeritus at the Gulf Coast Research and Education Center of the University of Florida in Wimauma.

At the University of Massachusetts, Professor Maynard was active in training future horticulturists. His courses included Basic Plant Science, Vegetable Production, Plant Nutrition, and Organic Farming and Gardening, in addition to offerings in continuing education. He trained many graduate students, who in turn have had outstanding careers in the United States and abroad. His early research concentrated on plant nutrition, emphasizing the role of calcium in vegetable crop development including the disorders of cavity spot of carrot, brownheart of escarole, tipburn of cabbage and lettuce, and internal browning of Brussels sprouts. Further, he investigated nutrient uptake, nitrate

accumulation, ammonium toxicity, and distribution of elements in plants and gained international recognition as an authority on plant nutrition. Professor Maynard held several administrative positions at the University of Massachusetts during periods of rapidly increasing student enrollment, including Acting Head of the Department and Director of Undergraduate Affairs of Plant and Soil Sciences and Assistant Dean of the College of Agriculture.

At Bradenton, Professor Maynard began a new career in research and extension. He worked with county extension faculty in support of statewide programs in vegetable crop production, cultivar evaluations, and identification of specialty vegetable crops for commercial production in Florida. Annually, he edited the *Vegetable Production Guide for Florida*. He introduced new hybrids of tropical pumpkin (calabaza) and became an expert on this cucurbit vegetable. For more than a decade, he has worked on the improvement of seedless watermelons, which now dominate the watermelon industry in the United States. His web site, <http://watermelons.ifas.ufl.edu>, provides information on production information and received the American Society for Horticultural Science (ASHS) Outstanding Extension Publication Award in 2006.

Professor Maynard has written over 500 publications, including books, chapters, journal articles, newspaper articles, bulletins, reports, and fact sheets emphasizing vegetable crop production in temperate, subtropical, and tropical climates; irrigation; containerized production of transplants; nutritional diseases; triploid watermelons; and fertilization. He edited a monograph, *Watermelons: Characteristics, Production and Marketing*, published by ASHS Press. With his son Dr. David Maynard, an anthropologist at the State University of New York at Stony Brook, he has coauthored chapters on the history and use of cucumber, muskmelon, and watermelon and on squash, pumpkins, and gourds. His publication honors include the Marion Meadows Vegetable Research Award and the Environmental Quality Research Award from the ASHS. Following a sabbatical at the University of California, Davis, he joined his colleague and mentor Dr. Oscar A. Lorenz, in coauthorship of the 1980 and 1988 edition of *Knott's Handbook for Vegetable Growers*, the most widely used reference on vegetable crops. In 1997 and 2007, he became senior author of *Knott's Handbook* with Dr. George J. Hochmuth of the University of Florida.

Professor Maynard has been an active member of ASHS since 1955. He served as President in 1997 and continues as archivist/historian. His career in extension has been extraordinary. He has been a six-time recipient of the Southern Region of ASHS Extension Publication Award, recipient of the Covington Extension Award (2001), and named

Outstanding Extension Educator of ASHS. He was twice the recipient of the ASHS Extension Educational Aids Award. Professor Maynard has been active in international horticulture and organized the Second International Symposium on Specialty and Exotic Vegetable Crops for the International Society for Horticultural Science. In 2000 he received the Wilson Popenoe Award for Vegetable Crops from the Interamerican Society for Tropical Horticulture.

Professor Maynard has received many honors from academic institutions, industry, and government. At the 2006 Cucurbitaceae conference, he received the Lifetime Achievement Award for Crop Production. In 2000, he was honored with the Distinguished Alumni Award from the University of Connecticut Agriculture and Natural Resources Alumni Association and with the Outstanding Alumnus Award from the Department of Horticulture at North Carolina State University. Throughout his career he has served on review panels, as an expert witness, and as a consultant to government and industry.

Professor Maynard has been exceedingly generous in support of ASHS and the University of Connecticut, where he has established scholarships there and recently endowed the Donald N. Maynard Lecture Series in Plant Science. His hobbies include gardening, music, and reading and he is a long-time member and officer of Rotary Clubs in southwest Florida.

Professor Maynard is a scholar, educator, and strong advocate for horticulture, nationally and internationally. His personality is warm and genial, and his circle of friends and admirers is legendary. He serves as an inspiration to all who wish to accomplish much in this world.

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The Global Flower Bulb Industry: Production, Utilization, Research

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- I. INTRODUCTION
- II. HISTORICAL PERSPECTIVES
- III. GLOBALIZATION OF THE WORLD FLOWER BULB INDUSTRY
 - A. Utilization and Development of Expanded Markets

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