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[Greenhouse Management](#)

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[Forthcoming Books](#)

Operational management in pot plant production was investigated by means of system analysis and simulation.

[Miscellaneous Publication](#)

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[Pure and Applied Science Books, 1876-1982](#)

[Books in Print](#)

[Bibliography of Agriculture](#)

[Use of Soluble and Coated Controlled Release Fertilizers in Zero Run-off Irrigation Systems](#)

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Un invernadero es una construcción cerrada y compuesta por una estructura, generalmente metálica, que sirve de soporte a una cubierta formada por materiales traslúcidos, dentro de la cual es posible obtener un microclima que favorece la producción controlada de cultivos agrícolas. Con los invernaderos pueden obtenerse producciones vegetales de gran calidad y durante cualquier época del año, pudiendo alargar el número de cosechas recogidas dentro de un mismo periodo de campaña. Las plantas cultivadas bajo invernaderos necesitan unas condiciones mínimas y máximas de los parámetros o factores ambientales (temperatura, luz, humedad relativa, etc.) para que se dé un correcto metabolismo vegetal y un buen desarrollo de los cultivos agrícolas, pudiendo causarles la muerte si se sobrepasan sus valores límites. Por ello, resulta imprescindible realizar un correcto mantenimiento y manejo de los invernaderos. Este libro plantea, de un modo fácil y sencillo, los aspectos más importantes orientados a comprender el diseño, la construcción y el funcionamiento técnico de los invernaderos, con la intención de poder llevar a cabo un correcto manejo y mantenimiento de los mismos.

[Study of the Water-jacketed High Pressure Sodium Lamp](#)

[Cornell University Resource Guide for Agricultural Education](#)

Controlled Environment Agriculture (CEA) is a system of horticultural and engineering techniques allowing production of food crops in environments that might otherwise be unfavorable for agriculture. NASA utilizes a unique type of CEA requiring complete system closure for environmental control. Spinach, *Spinacia oleracea*, is among the candidate crops selected for NASA's Advanced Life Support System. Before the NASA food-crops list is finalized, potential concerns with each candidate crop must be addressed. While spinach can be produced rapidly and reliably with high yield, NASA plant physiologists, food scientists, and nutritional biochemists have defined three areas of concern regarding spinach: (1) reputed high iron content, (2) high oxalic acid content, (3) high nitrate content. High dietary iron is of concern to NASA because astronauts having lowered red blood cell mass during space flight may be at risk of developing iron overload diseases. High oxalate content is of concern because astronauts in the microgravity environment experience bone demineralization and oxalate binds calcium. High nitrate content is of concern because of the potential for post-consumption formation of carcinogenic nitrosamines. This thesis examines the three concerns through experimentation to assess whether genetic (cultivar selection) and environmental (CEA techniques) influences can be used to produce a spinach crop with improved nutritional value for humans. In vitro digestion methods and human intestinal cell culture (Caco-2 cells) were utilized to assess iron bioavailability. Spinach supplemented with ascorbic acid during in vitro digestion had increased iron bioavailability. Oxalic acid and nitrate contents were decreased with lowered root zone temperature and lowered nitrate-N supply in the hydroponic solution. Nitrate was increased with far-red supplemented light treatment. Examination of the National Seed Storage Laboratory's 290 spinach accessions showed a range in oxalic acid content from 750 to 1750 $\mu\text{moles/g}$ (dry weight basis) and range in nitrate content from 280 to 1200 $\mu\text{moles/g}$ (dry weight basis). Nitrate levels were decreased to undetectable amounts and oxalate levels were decreased by one-half through the development of a new pre-harvest culture technique. The CEA techniques developed in this thesis to improve the food-value of spinach were oriented toward large-scale production for commercial feasibility.

[Herbaceous Perennials Production](#)

[Scientific and Technical Books and Serials in Print](#)

Bulletin 110, etc. includes Annual report of the Extension Service for 1915/16- .

[Suffolk County Agricultural News](#)

[Weekly Record](#)

[Books in Print Supplement](#)

[Solar Energy and Nonfossil Fuel Research](#)

[Operational Management in Pot Plant Production](#)

[Exercises in Herb Science](#)

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[Southern Florist and Nurseryman](#)

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[Chrysanthemum Morifolium Response to 1\) Average Day and Night Temperatures, 2\) Plagiogeotropic and Diageotropic Growth in Controlled Environment Growth Chambers](#)

[Effect of Two-spotted Spider Mite, Tetranychus Urticae, Herbivory on Gas Exchange of Rose 'royalty' Foliage](#)

[Interior Landscape Industry](#)

[Bulletin - Cooperative Extension Service, University of Georgia, College of Agriculture](#)

[Vegetable Cultivar Evaluation and Crop Selection for Controlled Environment Agriculture and Advanced Life Support Systems](#)

[Genetic and Environmental Influences on the Nutritive Value of Spinach, Spinacia Oleracea, for Humans](#)

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[SF & N.](#)

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