

Popular Guide Focuses On Greenhouse Engineering

ITHACA, N.Y. — Attention greenhouse growers, managers, extension specialists, researchers, builders, and designers. "Greenhouse Engineering" (\$30) will provide you with valuable information on planning, constructing, and controlling a commercial greenhouse.

Written by extension specialists at the University of Connecticut, "Greenhouse Engineering" has been used over the past several years as a valuable guide for starting and maintaining an efficient greenhouse operation. This 212-page publication covers the various aspects of greenhouses, from site selection, layout, and growing systems to construction, remodeling,

and environmental control.

The comprehensive appendix includes a list of greenhouse construction and supply companies; plans for greenhouses; and information on topics such as heating and cooling, container capacity, and labor output. Also included in this publication are worksheets to assist operators in determining storage and mechanization requirements, machinery costs, greenhouse heat loss and cooling, and aerated steam heating.

The publication contains many other sections and topics to meet the needs of today's greenhouse industry. Some of the topics added to the original version of this

publication are insect exclusion screens, current technology for low-volume sprayers, ebb-and-flow watering systems, and the effect of air pollutant levels on plant growth. Updated sections include headhouse design, layout, and functions; fan and pad systems; fog systems; supplemental lighting equipment;

glazing materials and spectral transmittance; construction costs; and a list of equipment supply companies in North America.

"Greenhouse Engineering," NRAES-33, is available for \$30 per copy (plus shipping and handling) from NRAES (Natural Resource, Agriculture, and Engineering

Service), Cooperative Extension, 152 Riley-Robb Hall, Ithaca, New York 14853-5701. Shipping and handling for a single copy is \$5.50 within the continental U.S. New York residents, add eight percent sales tax (calculated on both the cost of the publication and shipping and handling charges).

Wine Grape Section At Convention

HERSHEY (Dauphin Co.) — Penn State Wine Grape Section at the Mid Atlantic Fruit and Vegetable Convention will focus on vine decline and trunk diseases at the Hershey Convention Center Jan. 29 from 8 a.m. to 5 p.m.

Vine decline is an important problem and the subject of much discussion and research in the East. This meeting will focus attention on recent developments surrounding this subject both in

Europe and in the U.S. The program will cover a wide variety of viticulture topics that relate to the vine decline syndrome.

Dr. Laura Mugnai from the University of Florence and Lucie Morton (Virginia) have been key participants in the effort to understand trunk diseases in grapevines. They will both be on hand to provide an update on their research and investigations. Dr. Elwin Stewart will bring

us up to date on his own research in Pennsylvania and New York. Others will be present to speak on a wide variety of subjects related to vine decline.

For more information, call Mark Chien at (717) 394-6851.



Northeast Fruit Growers' Meeting Feb. 12

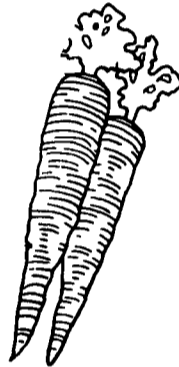
AVOCA (Luzerne Co.) — The Northeast Fruit Growers' Meeting will be Tuesday, Feb. 12, from 9 a.m. to 3:30 p.m. at the Iron Skillet Restaurant in the Petro Shopping Center, Avoca. Registration will begin at 8:30 a.m.

Arranged by the Lackawanna County Horticultural Association and Cooperative Extension of Penn State University, the meeting is open to all fruit growers. Presentations will include mite management, economics of replanting, intermal worm control, Apogee horticultural use and fireblight control, re-

planting problems, and pesticide applicator education.

Speakers include Jayson Harper, Rob Crassweller, Larry Hull, John Esslinger from Penn State, and Ron Edwards from the Pennsylvania Department of Agriculture. The meeting will provide recertification credits for pesticide applicators.

Reservations, including lunch, are \$12 and can be sent by mail to the Lackawanna County Cooperative Extension, 200 Adams Avenue, Scranton, PA 18503, or by calling (570) 963-6842 by Thursday, Feb. 7.



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