RESEARCH PUBLICATIONS

NEW YORK STATE AGRICULTURAL EXPERIMENT STATION GENEVA, NY

A Catalog of Currently
Available Titles Published
Through July 1988

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Helping to keep agriculture, New York's largest industry, competitive in today's ever changing foreign and domestic market is the goal of the New York State Agricultural Experiment Station.

Whether it be in the form of a major breakthrough or the continuing accumulation of results, Geneva Station researchers continue to be a key ingredient in meeting the market and production challenges of agriculture. The Geneva Station has been a part of Cornell University's College of Agriculture and Life Sciences since 1923 and is a vital part of its research and extension efforts in agriculture.

With its 66 faculty members plus a full-time support staff of some 270 people, the Geneva Station is charged with conducting research on the production and processing of fruits and vegetables. While a large part of the 120 research projects conducted at the Station is done in laboratories, the some 750 acres also serve as a laboratory for demonstration and experiments on new and improved crops and production techniques. There are also two outlying laboratories operated by the Station. One of these is located at Fredonia, south of Buffalo, and the other laboratory is in the Hudson Valley at Highland.

Although the Station is a horticultural research institute, many of its faculty have extension-type responsibilities. Working closely with growers and processors is critical to the success of the Station's research program.

As it enters its second century of serving the $2 billion processing fruit and vegetable industry, the Geneva Station continues to be recognized worldwide, as a leader in agricultural research. By blending applied and basic research and combining new and old techniques, the Station is successful in meeting its objective of developing and delivering useful information to growers and processors.

How to Obtain Publications

The publications listed here are mainly of a technical nature. Search: Agriculture, the series that replaced the former Cornell Memoirs and the Geneva Station's Technical Bulletins, comprises reports of basic research and is available to persons and institutions engaged in research and to libraries.

New York's Food and Life Sciences Bulletin replaces the former Cornell Experiment Station Bulletins and the Geneva Research Circulars.

The Special Report Series is published only at the Geneva Agricultural Experiment Station and is unique to research conducted at Geneva. This series is of interest to researchers and the general public alike.

All former Geneva bulletins will be listed here until they are out of print.

Single copies of publications are available free of charge to residents of New York State, to nonresident agribusiness people, and to non-residents engaged in research. The charge per bulletin for multiple copies is listed. Exceptions are all publications marked with a star (*); those have no free distribution.

Geneva's Bulletin Room keeps supplies of only the Geneva Station's publications. Use the form at the back of this list to order publications. Postage stamps are acceptable for payment of sums less than $1.00. Checks and money orders should be made payable in U.S. dollars to the New York State Agricultural Experiment Station (NYSAES).

Explanation of Symbols

Publications of the New York State Agricultural Experiment Station Geneva

C - Circular
G - Geneva General Bulletin
T - Technical Bulletin
Misc (Geneva) - Miscellaneous Publication
RC - Research Circular
SRC - Seed Research Circular
SpR - Special Report
FLS - New York's Food and Life Sciences Bulletin
Sch - Search: Agriculture

AGRICULTURAL ENGINEERING

G 660 Use of graphite to prevent clogging of drills when sowing dusted pea seed **Armond and Horsfall, 1936** (.20)

AGRONOMY

G 775 Soils and methods used in irrigation experiments at Geneva, New York **Vittum and Peck, 1956** (.25)

T 193 Lysimeter investigations. II. Composition of rainwater at Geneva, New York, for a 10-year period **Collison and Mersching ,1932** (.20)

T 237 Lysimeter investigations. IV. Water movement, soil temperatures, and root activity under apple trees **Collison , 1935** (.25)

T 279 Physical land condition of the fruit breeding farm at Geneva, New York **Secor, Carleton, and Lamb, 1947** (.20)

Sch 5 Soil and Air Temperature at Geneva, NY **Gibbs, Barnard, Peck, and Vittum, 1980** (.50)

SpR 39 What are the odds on maximum and minimum temperatures in New York State? **Vittum, Barnard, and Gibbs, 1981** (1.25)

SpR 42 Organic toxicants and pathogens in sewage sludge and their environmental effects **Babish, Lisk, Stoewsand, and Wilkinson, 1981** (.50)

DAIRY SCIENCE

C155 Straining milk on the farm **Dahlberg, 1935** (.20)

C197 Whipping light cream **Dahlberg, 1943** (.20)

G 639 Temperature of milk immediately after milking, and strainer capacity **Dahlberg and Durham, 1934** (.20)

T 117 Effect of lactic acid producing streptococci on flavor of cheddar cheese **Hucker and Marquardt, 1926** (.20)

T 184 Rate of chemical change in milk brought about by certain lactic acid streptoccocci **Kelly, 1931** (.20)

T 191 Thermophilic bacteria in milk pasteurized by the holder process **Breed, 1932** (.20)

T 200 The influence of certain lactic acid streptococci on the chemical changes in cheddar cheese during ripening **Kelly, 1932** (.20)

T 201 Lactic acid streptococci associated with the early stages of cheddar cheese ripening **Kelly, 1932** (.20)

T 242 Methods of making cheddar cheese from milk with low curd tension **Marquardt and Hucker, 1937** (.20)

T 253 Factors affecting the quality of limburger cheese made from milk heated to 145° F **Yale, 1940** (.20)

T 257 Rate of rennet coagulation and curd tension of milk, with special reference to problems in cheese manufacture **Marquardt and Needham, 1941** (.20)

T 259 Organisms causing rusty spot on cheddar cheese **Pederson and Breed, 1941** (.20)

T 265 Ripening cheese in cans **Dahlberg and Marquardt, 1942** (.20)

T 266 Gas production by cheddar and limburger cheese ripened in cans **Dorn and Dahlberg, 1942** (.10)

T 268 The surface flora and the use of pure cultures in the manufacture of limburger cheese **Yale, 1943** (.10)

T 269 Effect of pasteurization times and temperatures on certain properties and constituents of cream **Hening and Dahlberg, 1943** (.10)

T 270 Coliform bacteria in cheddar cheese **Yale and Marquardt, 1943** (.10)

T 271 Pasteurizing milk for cheese-making by direct steam **Marquardt and Yale, 1943** (.10)

ENTOMOLOGY

G 702 Spraying and dusting experiments with bush lima beans on Long Island for control of the Mexican bean beetle **Huckett, 1942** (.25)

G 715 Japanese beetle abundance and injury on sweet corn **Carruth, Bartlett, and Adams, 1946** (.20)

G 732 Hooded booms for grape spraying **Taschenberg, 1948** (.20)

G 823 Moth activity in Hudson Valley Orchards: Trapping records of seven pest species **Dean, 1969** (.50)

G 828 Biology of the European chafer in northeastern United States **Tashiro, Gyrisco, Gambrell, Fiori, and Breitfeld, 1969** (.75)

Misc Proceedings of symposium on potentials in crop protection (.50)

SpR 37 A bibliography of the seed maggots *Hylemya spatura and H. florilega* (Diptera: Anthomyiidae) **Throne, 1980** (.65)

FLS 16 The European Chafer, a continuing lawn problem in New York **Tashiro, 1972** (.45)

FLS 43 1973 sweet corn control report **Straub, 1974** (.50)

FLS 44 1973 European red mite control evaluations **Lienk and Minns, 1974** (.50)

FLS 49 Feasibility of fall armyworm, *Spodoptera frugiperda* (Smith), control on late-planted dent corn **Straub and Hogan, 1974** (.50)

FLS 50 Green fruitworms **Chapman and Lienk, 1974** (.90)

FLS 54 Protecting the tractor operator in the application of pesticidal chemicals **Taschenberg, Minnick, and Bourke, 1975** (.50)

FLS 56 1974 insecticide research report on cabbage maggot, seedcorn maggot, aphids on lettuce, and phytotoxicity in cucumbers **Eckenrode, Robbins, and Webb, 1975** (.50)

FLS 57 Field research on control of vegetable insects in eastern New York - 1974 **Straub and Huth, 1975** (.50)

*FLS 58 Growth stages in fruit trees, from dormant to fruit set **Chapman and Catlin, 1976** ($1.00) NO FREE DISTRIBUTION

FLS 63 Control of seedcorn maggot, cabbage maggot and cutworm (1975 insecticide research report) **Eckenrode, Robbins, and Webb, 1976** (.50)

FLS 70 Using sticky traps to monitor fruit flies in apple and cherry orchards **Leeper, 1978** (.75)

FLS 71 Evaluation of pesticides against the European red mite, apple rust mite, and two mite predators in 1976-1977 **Lienk, Minns, and Labanowska, 1978** (.80)

FLS 72 Simplified rearing and bioassay for the seedcorn maggot, *Hylemya platura* (Meigen) **Webb and Eckenrode, 1978** (.75)

FLS 79 The onion maggot and its control in New York **Ellis and Eckenrode, 1979** (.50)

FLS 81 New York tree fruit pest management project - 1973-1978 **Tette, Glass, Bruno, and Way, 1979** (.55)

FLS 85 Extension-based tree-fruit insect pest management strategies for apple and pear **Leeper, 1980** (.60)

FLS 87 Predicting cabbage maggot flights in New York using common wild plants **Pedersen and Eckenrode, 1980** ($1.00)

FLS 88 Extension based tree and small fruit insect pest management strategies **Leeper, 1980** (.85)

FLS 90 SCAMP - A computer-based information delivery system for cooperative extension **Sarette, Tette, and Barnard, 1980** (.60)

FLS 95 Blister spot of apple **Burr, 1982** (.40)

FLS 101 Cabbage growth stages **Andaloro, Rose, Shelton, Hoy, and Becker, 1983** (.40)

FLS 102 Patterns of pesticide use on New York state produced sweet corn **Straub and Heath, 1983** (.40)

FLS 104 Chem-News, an on-line pesticide information program **Smith, Carruthers, and Barnard, 1983** (.75)

FLS 105 A review of cabbage pest management in New York: from the pilot project to the private sector, 1978-1982 **Andaloro, Hoy, Rose, Tette, and Shelton, 1983** (.75)

FLS 106 An improved screen cone trap for monitoring activity of flying insects **Throne, Robbins, Eckenrode, 1984** (.70)

FLS 108 Diagnostic keys for identification of diseases on apple, peach, and cherry trees in the Northeastern United States **Schwarz and Burr, 1984** (.70)

FLS 118 Preventing decomposition of agricultural chemicals by alkaline hydrolysis in the spray tank **Seaman and Riedl, 1986** (.75)

FLS 120 Assessing the risk of Grape Berry Moth attack in New York vineyards **Hoffman and Dennehy, 1987** (.75)

FLS 121	Effect of Winter Storage on Thrips Damage to Cabbage **Stoner and Shelton, 1988** (.75)
FLS 122	Laboratory rearing of the imported cabbageworm **Webb and Shelton, 1988** (.75)
FLS 123	Basing European red mite control decisions on a census of mites can save control costs **Nyrup and Reissig, 1988** (.75)
Sch-Vol 2, #4	The role of nutrition in alary polymorphism among the Aphididae: An overview **Schaefers, 1972** (.45)
Sch-Vol 2, #11	A continuing search for effective cabbage maggot control in New York **Eckenrode, 1972** (.45)
Sch-Vol 2, #19	Aspects of the biology of the gray garden slug (Deroceras reticulatum Muller) **Judge, 1972** (.55)
Sch-Vol 3, #3	Chlordane-resistant Japanese beetle in New York **Tashiro and Neuhauser, 1972** (.50)
Sch-Vol 3, #9	Evaluation of soil applied systemic insecticides on insects of white birch in nurseries **Tashiro, 1972** (.55)
Sch-Vol 4, #8	The white apple leafhopper in New York: Insecticide resistance and current control status **Trammel, 1974** (.55)
Sch-Vol 5, #7	Status of chlordane resistance in the Japanese beetle in New York - 1973-1974 **Tashiro, Straub, and Gaines, 1975** (.55)
Sch-Vol 6, #4	The importance of defining lepidopteran pheromone blends **Roelofs, 1976** (.50)
Sch-Vol 6, #9	Effectiveness of various materials against the green house whitefly at Geneva, New York **Schaefers and Lienk, 1976** (.70)
Sch-Vol 7, #1	Seasonal occurrence of the European corn borer, (*Ostrinia nubilalis*) Hubner, in the Hudson Valley District of New York **Straub, 1976** (.70)
Sch-Vol 9, #4	Integrated mite control in Hudson and Champlain Valley apple orchards **Weires, McNicholas, and Smith, 1976** (.50)
Sch-Vol 9, #6	Reduced spray programs for apple pests in the Champlain and Hudson Valleys **Weires, McNicholas, Smith, Schadt, and Waters, 1976** (.55)
Sch 6	Phytophagous and predacious mites on apple in New York **Lienk, Watve, and Weires, 1980** (.55)
Sch 14	Flight periods of adults of cutworms, armyworms, loopers, and others injurious to vegetable and field crops **Chapman and Lienk, 1981** ($2.00)
Sch 27	Effects of soil-applied postplant insecticides and nematicides on the pest complex and growth habits of young apple trees **Weires, Forshey, and Arneson, 1984** (.50)
Sch 29	Suppressing onion maggot in commercial fields and research plots, and monitoring with air thermal unit accumulations **Andaloro, Rose, and Eckenrode, 1984** (.50)

Sch 31 Evaluations of selected cucurbita accessions for cucumber beetle complex resistance **Baker and R. Robinson, 1985** (.50)

SpR 45 European corn borer, identification, monitoring, flight patterns and control **Andaloro, Eckenrode, Robbins, Muka, Rose, Willson, and Becker, 1982** (.50)

FOOD SCIENCE AND TECHNOLOGY

C 196 The vitamin C content of New York State vegatables **Tressler, 1942** (.20)

G 672 Relation of age and viability to popping of popcorn **Stewart, 1936** (.20)

G 693 The relation between quality and chemical composition of canned sauerkraut **Pederson, 1940** (.20)

G 718 Some factors causing dark-colored maple sirup **Haywood and Pederson, 1946** (.20)

G 725 Ralation of copper-containing fungicides to the ascorbic acid and copper content of tomato juice **Robinson, Schroeder, Stotz, and Kertesz, 1947** (.20)

G 727 Concentration of fruit juices by freezing **Pederson and Beattie, 1947** (.20)

G 728 Deterioration of processed fruit juices **Pederson, Beattie, and Stotz, 1947** (.25)

G 729 Determination of maturity of frozen lima beans **Lee, 1948** (.20)

G 742 Changes in the composition of maple sap during the tapping season **Holgate, 1950** (.20)

G 743 Low temperature preservation of fruit juices and fruit juice concentrates **Lee, Robinson, Hening, and Pederson, 1950** (.20)

G 744 Effect of temperature upon bacteriological and chemical changes in fermenting cucumbers **Pederson and Albury, 1950** (.20)

G 745 The pectic substances of mature John Baer tomatoes **Kertesz and McColloch, 1950** (.20)

G 758 Variety comparison of peas used for canning and freezing, 1952 **Sayre, Tapley, and Barton, 1953** (.20)

G 759 The yield and quality of juice obtained from New York State tomatoes graded according to United States Department of Agriculture standards **Hand et al., 1953** (.30)

G 761 Chemical composition and freezing adaptability of raspberries **Lee and Slate, 1954** (.20)

G 768 Chemical composition and freezing adaptability of peach varieties grown in western New York **Lee, Oberle, and Whitcombe, 1954** (.20)

G 774 Bitter flavor in carrots: II. Progress on field and storage experiments **Atkins, 1956** (.25)

G 790 Symposium papers on "Food and Health", **1960** (.75)

T 136 Motility of certain cocci **Hucker and Thatcher, 1928** (.20)

T 144 Relations of acid-proteolytic cocci **Hucker, 1928** (.20)

T 150 Organisms in spoiled tomato products **Pederson, 1929** (.20)

T 179 Factors affecting the pectin content of stored apple pomace **Kertesz and Green, 1931** (.25)

T 213 Temperature variations in bacteriological incubators **Pederson, Yale, and Eglinton, 1933** (.25)

T 248 Bacteriological quality of ice cream supply for a small city **Yale and Hickey, 1937** (.20)

T 252 Use of calcium in the commercial canning of whole tomatoes **Kertesz, Tolman, Loconti, and Ruyle, 1940** (.20)

T 256 Objective methods for determining the maturity of peas, with special reference to the frozen product **Lee, 1941** (.20)

T 258 Relative sweetness of sugars as affected by concentration **Dahlberg and Penczek, 1941** (.20)

T 260 Use of the contact plate method to determine the microbiol contamination on flat surfaces **Walter and Hucker, 1941** (.20)

T 272 Factors determining the consistency of commercial canned tomato juice **Kertesz and Loconti, 1944** (.20)

T 273 The bactericidal action of cabbage and other vegetable juices **Pederson and Fisher, 1944** (.25)

T 274 The chemical composition of maturing New York State grapes **Kertesz, 1944** (.20)

T 275 Studies on the Coccaceae, XVIII. The enterotoxin-producing micrococci **Haymes and Hucker, 1945** (.20)

T 276 The action of copper and antioxidants in linoleic acid autoxidation **Smith and Stotz, 1946** (.20)

T 278 Factors affecting the acid and total solids content of tomatoes **Lee and Sayre, 1946** (.25)

T 280 The rate of germicidal action of the quaternary ammonium compounds **Hucker, Metcalf, and Cook, 1948** (.25)

T 281 Effect of H-ion concentration and temperature on the activity of the quaternary ammonium compounds **Hucker, Stone, and Watkins, 1948** (.25)

T 282 The effect of organic matter on the germicidal action of the quaternary ammonium compounds **Hucker and Van Eseltine, 1948** (.20)

T 285 Chemical composition of ripe Concord-type grapes grown in New York in 1947 **Robinson, Avens, and Kertesz, 1949** (.20)

T 287 Flat sour spoilage of tomato juice **Pederson and Becker, 1949** (.20)

T 288 The effects of salt upon the bacteriological and chemical changes in fermenting cucumbers **Pederson and Ward, 1949** (.20)

Misc Measurement of non-volatile acids in grape juice **Mattick and Moyer** (.20)

RC 11 New York State dried prunes **LaBelle, Lamb, and Hicks, 1968** (.20)

RC 17 Analysis of effluents from fruit and vegetable processing factories **Splittstoesser and Downing, 1969** (.30)

RC 20 Byssochlamys seminar abstracts **Misc., 1969** (.50)

RC 21 Stripping of high-boiling aroma compounds from aqueous solutions **Saravacos, Moyer, and Wooster, 1969** (.20)

SpR 1 Vineyard and cellar notes 1968-69 **Robinson, Bertino, Einset, and Kimball, 1970** (.45)

SpR 5 Nutrition in the '70s - Fifth annual symposium, Western New York State Institute of Food Technologists, 1970 (.55)

SpR 8 Homemade fruit juice press **Downing, 1972** (.40)

SpR 9 Environmental contaminants in foods - sixth annual symposium, Western New York State Institute of Food Technologists, **1972** (.45)

SpR 11 1972 Sauerkraut seminar - National Kraut Packers Assoc., **1973** (.45)

SpR 13 Fungi and foods - seventh annual symposium, Western New York State Institute of Food Technologists, **1973** (.50)

SpR 16 Fermented foods: current science and technology - eighth annual symposium, Western New York State Institute of Food Technologists, **1974** (.50)

SpR 17 1974 Sauerkraut seminar - National Kraut Packers Association, **1974** (.60)

SpR 18 Trends in packaging - ninth annual symposium, Western New York State Institute of Food Technologists, **1975** (.60)

SpR 20 A wine meeting for amateurs, **1976** (1.50)

SpR 21 The role of fiber in the diet - tenth annual symposium, Western New York State Institute of Food Technologists, **1976** (1.40)

SpR 22a 1958-1973 vineyard and cellar notes **Pool, Einset, Kimball, Watson, Robinson, and Bertino, 1976** (1.20)

SpR 24 1976 Sauerkraut seminar - National Kraut Packers Association, **1977** (.75)

SpR 25 Working with government regulations, eleventh annual symposium, Western New York Institute of Food Technologists, **1976** (.80)

SpR 26 1977 Nutrition Council seminar, 1977 (1.00)

SpR 27 1977 Apple seminar, **1977** (.50)

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SpR 29 Energy conservation and economics - twelfth annual symposium, **1978** (1.00)

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SpR 34 Update on antimicrobial agents, fourteenth annual symposium **Downing, ed., 1980** (.75)

SpR 38 1980 sauerkraut seminar - National Kraut Packers Association **Downing, ed., 1981** (1.00)

SpR 40 The retort pouch - 1980's - fifteenth annual symposium, **1981** (.75)

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HORTICULTURAL SCIENCES

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