

NEW YORK STATE AGRICULTURAL EXPERIMENT STATION
Geneva, New York

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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 70 faculty members plus a full-time support staff of some 260 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 900 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

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. The publications listed here are mainly of a technical nature. The Search series numbers are used by both Ithaca and Geneva researchers.

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.

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:

G - Geneva General Bulletin
 Misc (Geneva) - Miscellaneous Publication
 RC - Research Circular
 SpR - Special Report
 FLS - New York's Food and Life Sciences Bulletin
 Sch - Search: Agriculture
 GF - Grape Facts

ENTOMOLOGY

- 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, Flori, and Bretfeld, 1969** (.75)
- SpR 37 A bibliography of the seed maggots *Hylemya spatula* and *H. florilega* (Diptera: Anthomyiidae) **Throne, 1980** (.65)
- FLS 50 Green fruitworms **Chapman and Lienk, 1974** (1.00)
- *FLS 58 Growth stages in fruit trees, from dormant to fruit set. **Chapman and Catlin, 1976** (\$2.00) NO FREE DISTRIBUTION
- 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)
- FLS 124 Insects associated with apple in the Mid-atlantic States **Brown, Adler, and Weires, 1988** (.75)
- FLS 128 The effects of ground cover manipulations on pest and predator mite populations on apple in Eastern New York. **Smith, Stiles, Weires, 1989** (.75)
- FLS 129 Ethephon Growth Regulator as a Potential Tool for Managing Excessive Height in Sweet Corn Hybrids **Straub, 1989** (.75)
- FLS135 Pheromonal Control of the Grape Berry Moth: An Effective Alternative to Conventional Insecticides. **Dennehy, Clark, Kamas, 1991** (1.00)
- Sch-Vol 2, #4 The role of nutrition in alary polymorphism among the Aphididae: An overview **Schaefer, 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, #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 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 **Schaefer 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 Cutworm, Armyworm, Loopers, and Others (family Noctuidae) injurious to Vegetable and Field Crops **Chapman and Lienk, 1981** (2.00) NO FREE DISTRIBUTION
- Sch 27 Effects of soil-applied postplant insecticides and nematicides on the pest complex and growth habits of young apple trees **Welres, 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)
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- Sch 36 Biology of the Codling Moth in Hudson Valley orchards **Dean (foreward by Welres), 1989** (.50)
- SpR 42 Organic toxicants and pathogens in sewage sludge and their environmental effects **Babish, Lisk, Stoewsand, and Wilkinson, 1981** (.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

- 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)
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- 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 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 State Institute of Food Technologists, 1976 (.80)
- SpR 26 1977 Nutrition Council seminar, 1977 (1.00)
- SpR 27 1977 Apple seminar, 1977 (.50)
- SpR 28 Proceedings - apple and pear scab workshop, 1978 (1.00)
- SpR 29 Energy conservation and economics - twelfth annual symposium, 1978 (1.00)
- SpR 30 1978 Sauerkraut seminar **Downing, ed., 1978** (.60)
- SpR 31 Controlling microorganisms in food processing **Downing, ed., 1979** (.80)
- SpR 32 Hard cider workshop **Downing, ed., 1979** (.75)
- SpR 33 Farm winery workshop **Downing, ed., 1980** (.75)
- 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)
- SpR 44 Basic statistics, sixteenth annual symposium, Western New York Section - IFT, 1982 (.90)
- SpR 46 1982 Sauerkraut seminar **Downing, ed., 1982** (.80)
- SpR 48 New technology for the food industry, 1983 (.80)
- SpR 50 Processed apples - research report for 1983 **Downing, ed., 1983** (1.00)
- SpR 51 Computer use in the food industry - a symposium **Downing, ed., 1983** (.80)
- SpR 53 Gum and starch technology - Eighteenth annual symposium **Downing, ed., 1984** (1.25)
- SpR 54 Apple juice workshop **Downing, ed., 1984** (1.25)
- SpR 56 1984 Sauerkraut seminar **Downing, ed., 1985** (1.25)
- SpR 57 1985 Processed apple products workshop **Downing, ed., 1985** (.70)
- SpR 58 Trends in packaging **Downing and Hotchkiss, 1985** (1.25)
- SpR 59 Sensory evaluation, twentieth annual symposium, November 21, 1985. **Downing, ed., 1986** (.75)
- SpR 60 Rapid microbiological methods, twenty-first annual symposium, **Downing, ed., 1987** (.75)
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- SpR 63 Low-calorie food ingredients, twenty-third annual symposium, November 1988. **Downing, ed., 1989** (.75)
- SpR 64 Refrigerated Foods and Emerging Pathogens. Twenty-fourth Annual Symposium, IFT. November 1989. **Downing, ed., 1990** (.75)
- FLS 1 Free sugars in fruits and vegetables **Lee, Shallenberger, and Vittum, 1970** (.40)
- FLS 4 Concentration of liquid foods in a pilot-scale falling film evaporator **Saravacos, Moyer, and Wooster, 1970** (.40)
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- FLS 12 Physical treatments of food processing wastewaters **Saravacos and Iredale, 1971** (.40)
- FLS 66 Experimental wine production **Nelson, Acree, Robinson, Pool, and Bertino, 1977** (.70)

- FLS 84 Dietary vegetable and environmental health **Stoewsand and Babish, 1979** (.50)
 FLS 126 Vegetables as a major Vitamin A source in our diet. Cooperative Regional Research Project NE-116
Lee, Simpson, and Gerber, 1989 (.75)
 Sch-Vol 2, #3 Experimental distillation of New York State wines **Saravacos and Iredale, 1972** (.45)
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 L.) **Hackler and Dickson, 1973** (.50)
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HORTICULTURAL SCIENCES

FRUIT:

Apples:

- G 817 Propagating fruit trees in New York **Way, Dennis, and Gilmer, 1967** (.50)
 RC 12 Jonagold and Spijon: two new apples from Geneva **Way, LaBelle, and Einset, 1968** (.20)
 RC 15 Tree spacing in relation to orchard production efficiency **Cain, 1969** (.25)
 SpR 3 Pollination arrangements in new apple plantings **Way, 1970** (.25)
 SpR 7 Early apple varieties **Way, 1972** (.25)
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 FLS 15 Slotting saw pruning of hedgerow apples improves production and quality **Cain, 1972** (.40)
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 FLS 53 Empire: a high quality dessert apple **Way, 1975** (.50)
 FLS 64 Factors affecting chemical thinning of apples **Forshey, 1976** (.70)
 FLS 65 McIntosh apple crop prediction - grower sampling instructions **Forshey, 1977** (.55)
 FLS 73 Liberty - a new disease-resistant apple **Lamb, Aldwinckle, Way, and Terry, 1978** (.60)
 FLS 78 Apple varieties grown in New York State **Way, 1979** (.55)
 FLS 99 Early Cortland and Geneva early apples **Way, Livermore, and Aldwinckle, 1982** (.40)
 FLS 103 'Freedom' a new disease-resistant apple **Lamb, Aldwinckle, Terry, 1983** (.50)
 FLS 116 Chemical thinning of apples **Forshey, 1986** (.75)
 FLS 133 'Northern Lights' Apple **Way, Brown, and Livermore, 1990** (.75)
 FLS 134 'ROYAL EMPIRE'™ APPLE, A highly colored sport of 'Empire'. **Brown, Way, Teeple, 1990** (1.00)
 Sch-Vol 2, #7 Hedgerow orchard design for most efficient interception of solar radiation. Effects of tree size, shape,
 spacing, and row direction **Cain, 1972** (.45)

Cherries:

- FLS 37 Cherry varieties in New York State **Way, 1974** (.50)
 FLS 98 Kristin sweet cherry **Way, Ystaas, Livermore, Lamb, 1982** (.40)
 FLS 127 Sweet and tart cherry varieties: descriptions and cultural recommendations **Brown, Way, and**
Terry, 1989 (.75)

Grapes:

- G 811 The Geneva Double Curtain for Vigorous Grapevines - Vine Training and Trellis Construction **Shaulis,**
Shepardson and Jordan, 1967 (.50)
 G 821 Growing Cold-Tender Grape Varieties in New York **Shaulis, Einset, and Pack, 1968** (.50)
 FLS 21 Lakemont and Suffolk red seedless grapes named **Einset, 1972** (.45)
 FLS 22 Cayuga White, the first of a Finger Lakes series of wine grapes for New York **Einset and Robinson,**
1972 (.45)
 FLS 45 Resistant rootstocks for New York vineyards **Lider and Shaulis, 1974** (.50)
 FLS 68 Canadice and Glenora seedless grapes named **Pool, Kimball, Watson, and Einset, 1977** (.55)
 FLS 80 Grape varieties for New York State **Pool, Kimball, Watson, and Einset, 1979** (.50)
 FLS 89 Remail seedless grape **Pool, Remail, Reisch, Watson, and Kimball, 1981** (.30)
 FLS 96 Horizon grape **Reisch, Robinson, Kimball, Pool, Watson, 1982** (.50)
 FLS 109 A method for large scale *in vitro* propagation of *vitis* **Chee, Pool, Bucher, 1984** (.75)
 FLS 112 'Melody' Grape **Reisch, Pool, Watson, Robinson, and Cottrell, 1985** (.75)
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 FLS 131 Shoot Positioning Native American (Concord Type) Grape Vines **Pool, Dunst, Kamas, Gunkel,**
Goffinet, 1990 (.75)
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1990 (.75)
 GF 1,1 Managing Weeds in New York Vineyards. I. Choosing a Weed Management Program. **Pool, Dunst,**
and Senesac, 1990 (.75)
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- GF 1,4 Managing Weeds in New York Vineyards. IV. Post-Emergence Herbicides. **Dunst, Senesac, and Roel. 1990.** (.75)
 GF 1,5 Managing Weeds in New York Vineyards. V. Managing Vineyard Floors Using No-Tillage. **Pool, Dunst, and Kamas. 1990.** (.75)
 Sch 3 Damage to grapevines by fossil fuel wastes and pollutants **Musselman, Shaull, and Kender, 1980** (.60)

Peaches:

- FLS 23 Brighton and Eden: two new peach varieties **Lamb, 1972** (.45)
 FLS 34 Peach and nectarine varieties for New York State **Lamb and Terry, 1973** (.50)
 FLS 117 Peach and nectarine varieties in New York State **Brown, Lamb, Terry, 1986** (.75)

Raspberries:

- RC 19 Heritage, a new fall-bearing red raspberry **Ourecky and Slate, 1969** (.25)
 FLS 35 Jewel black raspberry **Ourecky and Slate, 1973** (.45)
 FLS 61 Brandywine purple raspberry **Ourecky, 1976** (.55)
 FLS 97 Royalty - a purple-red raspberry **Sanford, Ourecky, 1982** (.50)
 FLS 111 'Titan' Red Raspberry **Sanford, Ourecky, and Reich, 1985** (.75)
 FLS 125 RUBY™ (cultivar 'Watson') red raspberry **Sanford, Maloney, and Reich, 1988** (.75)

Strawberries:

- FLS 24 Holiday strawberry **Ourecky, 1972** (.45)
 FLS 83 Honeoye and Canoga strawberry cultivars **Ourecky, 1979** (.60)
 FLS 107 Strawberry cultivars for New York **Sanford, 1984** (.50)
 FLS 114 'Jewel' Strawberry **Sanford, Ourecky, and Reich, 1985** (.75)

Misc.:

- FLS 26 Seneca plum named **Watson, 1972** (.45)
 FLS 39 Fruit varieties in New York State: Berries **Ourecky, 1974** (.50)
 FLS 48 Highland: a new winter pear **Lamb, 1974** (.50)
 FLS 76 Pollination and fruit set of fruit crops **Way, 1978** (.80)
 FLS 91 Elderberry culture in New York State **Way, 1981** (.35)
 FLS 100 Apricots for New York State **Lamb, Stiles, 1983** (.40)

VEGETABLES:

Peas

- G 825 Plant response to concentrated superphosphate and potassium chloride fertilizers: I. Pea **Peck and MacDonald, 1969** (.40)
 Sch-Vol 9, #5 Purple blight - a physiological disorder of pea **Schroeder, Peck, and Vittum, 1979** (.50)

Snap Beans:

- G 819 Relationship between the size and performance of snap bean seeds **Clark and Peck, 1968** (.40)
 Sch-Vol. 2, #9 Nature of the stringy pod rogue of snap bean, and nature of the flat pod rogue of snap beans **Atkin and Robinson, 1972** (.45)
 Sch-Vol 5, #2 Plant response to concentrated superphosphate and potassium chloride fertilizers: V. Snap Bean **Peck and Van Buren, 1975** (.90)

OTHER (HORTICULTURAL SCIENCES)

- G 774 Bitter flavor in carrots: II. Progress on field and storage experiments **Atkins, 1956** (.40)
 G 801 Growing degree days **Dethier and Vittum, 1962** (1.00)
 G 807 Principles and methods of testing alfalfa seed for varietal purity **Nittler, McGee, and Newcomer, 1964** (.40)
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 SpR 41 Progress in the evaluation of use of plant germplasm in the Northeast 1965-1973 **Dolan and Sherring, 1981** (.75)

SpR 43	Progress in the evaluation of use of plant germplasm in the Northeast 1974-1979 Dolan and Sherring, 1982 (.50)
SpR 47	Minimum and maximum temperatures and record periods of warm and cold, wet and dry weather at Geneva, NY Vittum, Gibbs, and Barnard, 1983 (1.00)
SpR 49	Solar and diffuse sky radiation at Geneva, NY, totals and means 1970-1982 Peck, Barnard, and Haverkamp, 1983 (.50)
SpR 52	Air temperature at Geneva, NY, mean and hourly, 1970-1982 Peck, Gibbs, and Haverkamp, 1984 (.80)
FLS 3	The potentiometric determination of nitrate and chloride in plant tissue Cantliffe, MacDonald, and Peck, 1970 (.40)
FLS 52	Vegetable crop fertilization Peck, 1975 (.50)
Sch-Vol 1, #9	Discovery of a new role for cytokinins in seed dormancy and germination Khan, Heit, Waters, Anojulu, and Anderson, 1971 (.40)
Sch-Vol 2, #2	Understanding plant physiology and other branches of mathematics Drury, 1972 (.40)
Sch-Vol 4, #6	Table beet and nitrogen Peck, Cantliffe, Shallenberger, and Bourke, 1974 (.75)
Sch-Vol 5, #3	Plant response to concentrated superphosphate and potassium chloride fertilizers: VI. Sweet Corn Peck and MacDonald, 1975 (.90)
Sch-Vol 5, #9	Solar radiation at Geneva, New York: Variations in intensity and duration, 1964-1973 Peck, Gibbs, and Barnard, 1975 (.70)
Sch 5	Soil and air temperature at Geneva, New York Gibbs, Barnard, Peck, and Vittum, 1980 (.50)
Sch 12	Plant Response to concentrated superphosphate and potassium chloride fertilizers: VII. Additions and removals of P and K in a vegetable-alfalfa rotation, 1963-1972 Peck, 1980 (.60)
Sch 17	Use of seedling characteristics in testing trefoil seed for varietal purity Nittler, 1981 (.80)
Misc.	Soil Productivity and Vegetables Peck and Taylor, 1988

INTEGRATED PEST MANAGEMENT

FLS 119	IPM in New York apple orchards - development, demonstration and adoption Tette, Kovach, Schwarz, Bruno, 1987 (.50)
FLS 130	Pesticide Use Patterns in New York Agriculture 1986-1988. Tette, Degni, Petzoldt, Kovach, Waldron, and Ferrentino, 1990 (.75)
*Misc.	Proceedings National IPM Symposium/Workshop. Glass, 1989. (5.00) NO FREE DISTRIBUTION

PLANT PATHOLOGY

FLS 77	White mold of beans in New York Abawi and Hunter, 1979 (.85)
FLS 92	Biology and control of Cytospora fungi in peach plantings Rosenberger, 1982 (.40)
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*FLS 110	Root rot of snap beans in New York Abawi, Crosier, and Cobb, 1985 (3.00) NO FREE DISTRIBUTION
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Sch-Vol 9, #1	Two computer programs used in the analysis of rectangular and circular charts from continuously recording weather instruments Blume, Seem, and Barnard, 1979 (.55)
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