



STATION NEWS

A House Organ for Station Employees
Not for Publication Without Consent

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New York State Agricultural Experiment Station, Geneva

ANNUAL STATION CLUB BANQUET

The date of October 25 has been set for the Annual Station Club Banquet to be held at Club 86. As in the past, there will be a choice of several menu selections, and a good band has been hired.

So, please reserve this date on your calendar. Watch for announcements, sign-up sheets, and the Station Club representatives selling tickets.

LT. GOV.'S REPRESENTATIVE VISITS GENEVA CAMPUS

Ms. Nancy Dubner, Regional Representative for Lt. Governor Mary Anne Krupsak, paid a 3-hour visit to the Geneva Station on September 10. While here she toured almost all of the departments and several of the research farms. She also had an opportunity to meet department heads at a luncheon and to discuss research needs and priorities with them.

Since returning to Rochester, we have received word

from her that she is recommending to Lt. Governor Krupsak that she place the Station on her agenda to visit as soon as time can be made in her schedule.

SABBATICALS

Chang Lee, Food Science, along with his wife and daughter, left Geneva on September 21 for Brasilia, Brazil where Chang will spend a 6-month sabbatical leave. He will be working at the Agricultural Research Institute in Brasilia which is under the direction of the Organization of American States. Chang will be involved in their program on the technology of vegetable products.

Al and Edith Braun, Plant Pathology, have returned from his sabbatical at Skierniewice, Poland. Al also attended the International Plant Protection Congress in Moscow and toured fruit and wine growing areas in southern Russia.

Dr. G. "Stan" Howell, Associate Professor in the Department of Horticulture at Michigan State University, East Lansing, started a 9-month sabbatical leave in the Department of Pomology and Viticulture. While at Geneva, Dr. Howell

will work with Nelson Shaulis and Bob Pool with emphasis on winter hardiness research on grapevines. Dr. Howell, a native of Mobile, Alabama, received his B.A. and M.S. degrees from Mississippi State University and his Ph.D. degree from the University of Minnesota. His responsibilities at Michigan State include research and extension in viticulture and small fruits. Stan, his wife Nancy, and three children are residing on West Lake Road, Geneva.

SPECIAL STATION SEMINAR

A special Station seminar will be held Tuesday, October 21, at 11 a.m. in the conference room of the Food Research Laboratory. Dr. S. J. Wellensiek, Emeritus Professor of the Department of Horticulture at the Agricultural University, Wageningen, The Netherlands, will present a guest lecture on "Flower Formation in Plants." Professor Wellensiek is a prominent horticulturist on the international scene and a leading authority on flowering of plants. He served as past President of the International Society for Horticultural Science. The entire Station staff is invited.

MEETINGS AND SEMINAR

Robert Pool, John Einset, Nelson Shaulis, George Remaily, and Keith Kimball, Pomology and Viticulture, attended the Grape Breeders Conference in Vineland, Ontario September 25-26.

Robert Pool attended the Germ Plasm Repository Committee meetings in Davis, California on September 24.

Nelson Shaulis attended grape meetings in Benton Harbor, Michigan on September 2-5.

Herb Aldwinckle, Plant Pathology, and Walt Kender, Pomology and Viticulture, attended a Symposium on the Juvenility of Woody Perennials on the campus of the University of Maryland September 29-October 1. The symposium was organized by the Juvenility Working Group of the International Society for Horticultural Science. Walt serves as secretary of the Working Group and was moderator of a session on "Control of Phase Change in Juvenility." Herb presented a paper entitled "Early Flowering of Apple Seedlings Forced in the Greenhouse."

Gary Harman, Seed and Vegetable Sciences, presented a paper on the "Physiology of Seed Deterioration" at the joint meeting of the American Society of Agronomy, the Crop Science Society of America, and the Soil Science Society of America in Knoxville, Tennessee August 24-29. The paper was co-authored by Anwar Khan and Jim Tao.

Bob Shallenberger, Terry Acree, and Mike Lindley, Food Science, attended the American Chemical Society meeting held in Chicago August 25-29 where Bob chaired a symposium on Chemistry of Food Carbohydrates. After the meetings, Bob and Dr. Gordon Birch of the National College of Food Technology, England, traveled to the Northern Regional Research Laboratory in Peoria, Illinois where they discussed research results of mutual interest with staff members there.

On September 11 and 12, the Department of Food Science and Technology and the American Wine Society cosponsored "A Wine Meeting for Amateurs." Approximately 80 amateur winemakers from six states and Canada attended the 2-day event which included a wine tasting and dinner on Thursday evening in the Station Recreation Pavilion, tours of Station vineyards, and a grape pressing demonstration in the Food Research Pilot Plant. Station personnel on the program included Pat Krauss, Bob Gilmer, Bob Pool, Willard Robinson, Don Splittstoesser, Terry Acree, Jerry Van Buren, John Stamer, Keith Steinkraus, Len Mattick and Bill Bowers. Also participating on the program were John Tomkins of the Pomology Department, Ithaca; Gilbert Smith, Vineyard Consultant from Penn Yan; Thomas Zabadal, Grape Specialist with Cooperative Extension in Penn Yan; Henri Fluchere, Editor and Publisher of the Consumer Wine Letter; Elmer Phillips,

Professor Emeritus, Cornell University; G. H. Mowbray, Montbray Winery in Maryland; and Robert Woodbury, attorney from Dunkirk, New York.

Des Dolan, Plant Introduction, will be giving a seminar to the Plant Science Department, University of Vermont, Burlington on October 14 entitled "21-year Contribution of Regional Project NE-9 to the Improvement of Agriculture in the 12 States of the Northeast Region."

Ed Glass, Entomology, was in Washington, D. C. on September 25 and 26 for a meeting of his panel on research needs on pesticides.

He also attended a meeting of the ad hoc Advisory Committee of the University of California/AID Pest Management Project in Washington, D. C. on September 8 and 9.

Herb Aldwinckle attended the Fruit Tour at the Hudson Valley Laboratory and toured field experiments with Roger Pearson September 4-5.

Bob Seem, Plant Pathology, attended the Pennsylvania and Virginia Fruit Tours September 10-11.

Nelson Shaulis, Don Ourecky, and Walt Kender attended the annual meeting of the American Society for Horticultural Science in Honolulu, Hawaii on September 9-15. Nelson served as chairman of the Viticulture and Small Fruit Section and moderated a session on viticulture. He also presented a paper entitled "The Training of Grapevines for Mechanical Pruning" authored by Nelson Shaulis, E. S. Shepardson, and J. Pollock (Cornell University). Don presented a paper entitled "Frost Resistance in Strawberries" authored by D. K. Ourecky and J. Reich. Walt served on the Board of Directors of ASHS and also presented a paper on research conducted while on sabbatical leave in The Netherlands entitled "Hormonal Regulation of Physiological Leaf Spot and Premature Leaf Abscission in Golden Delicious Apple Trees," authored by W. Kender and H. Jonkers (Wageningen, The Netherlands). All three members of the Pomology and Viticulture Department toured various islands after the meetings.

Morrie and Wini Vittum, Seed and Vegetable Sciences, also attended the meeting and tours of the American Society for Horticultural Science in Hawaii September 7-23.

Robert Becker, Extension, took part in the Extension tour of vegetable crops in southeastern Ontario September 24-27.

Gail Hyde, Librarian, attended the Bicentennial Symposium on "Agricultural Literature: Proud Heritage—Future Promise" at the National Agricultural Library September 24-26. This symposium focused attention upon the development of American agriculture: past, present, and future, as reflected in the agricultural literature of the time.

FRUIT TESTING ASSOCIATION FIFTY-SEVENTH ANNUAL MEETING

More than 300 members of the New York State Fruit Testing Cooperative Association, Inc. attended the 57th Annual Meeting of the organization September 18 in Jordan Hall.

Of particular interest to those attending was the fact that the meeting was dedicated to Professor Emeritus of Pomology Richard Wellington who died recently at the age of 90. Professor Wellington joined the staff of the Experiment Station in 1906 and retired in 1953. He is still recognized as having been one of the leading fruit breeders of all time by colleagues throughout the world.

In outlining Wellington's accomplishments at the Station, John Einset said that Wellington had a keen understanding of fruit materials. "He didn't use punch cards or computers to help him with his scientific discoveries like we do today," said Einset, "but the more than 40 varieties of apple, plum, and cherry attest to his abilities as a fruit breeder."

Wellington had a particularly high interest in seeing the development of the New York State Fruit Testing Cooperative Association, Inc. and worked very closely with the Association. He was its Secretary-Treasurer from 1923

until his retirement from the Station in 1953. The Association was founded to provide an outlet for testing on a small scale promising and noteworthy selections of fruit from the Geneva Station and other locations as well. It is supported solely by membership dues and sales of fruit materials and is not part of the Station.

In addition to the tribute to Professor Wellington, those attending the meeting heard Dr. Robert Smock, Professor of Pomology, Cornell University, Ithaca, discuss post harvest considerations in evaluation of fruit varieties and Jim Cummins, Pomology and Viticulture, Geneva, review the need for the collecting and preserving of fruit clones to use as future sources of breeding material. Also, visitors had an opportunity in the morning to ask questions of scientists from the Experiment Station and then spent the afternoon touring the orchards and vineyards at the Station.

A large display of fruit was prepared and placed in the auditorium of Jordan Hall for the meeting.

VISITORS

Dr. Dana Lovell, Olin Corporation, was at the Station on September 23 to discuss potentialities of developing a research and development program in pesticides. He conferred with several members of the Departments of Entomology, Plant Pathology, and Pomology and Viticulture.

A Commercial Fieldmen's Fruit tour was conducted September 2, 3, and 4. The tour was in the Geneva and Sodus areas the first 2 days and in the Hudson Valley the third day. Members of the Entomology Department who participated were Harvey Reissig, Ken Trammel, Mike Dunham, Sieg Lienk, Ed Glass, and Rick Weires.

Dr. Alan Jones of Michigan State University also attended the Geneva Fruit Tour and visited with John Gilpatrick and Herb Aldwinckle September 2-3.

Visitors to the Department of Seed and Vegetable Sciences during the month of September were Ing. J. A. Schoneveld from Holland (Nathan Peck and Morrie Vittum), Dr. R. Marks, Horticulture Research Officer from Australia (various members of department), Dr. Yvonne Aitken, plant breeder, from the University of Melbourne, Australia (Gerry Marx), Dr. M. Ingle, West Virginia University and a group of students (Bob Becker and members of the department).

Dr. Crowder's plant breeding class from Cornell University and Fred Hough and Catherine Bailey's fruit breeding class from Rutgers University visited the Station on Saturday, September 20. A program was presented by Roger Way, Bob Pool, Jim Cummins, John Watson, and Bob Lamb using the Fruit Testing exhibit as a teaching aid. The students attending toured the Station vineyards and orchards and heard talks by the fruit breeders. Bill Sherring conducted them around the Plant Introduction fields.

Dr. Tom van der Zwet from the Beltsville Agricultural Research Center visited with Bob Lamb, Herb Aldwinckle, and Randy Gardner September 17-19 to discuss mutual interests in pear breeding and the fire blight disease. He also attended the Fruit Testing Association Meeting.

Did you shake the hand that shook the hand of President Ford? Only a Romanian could have done it. Dr. Vassily Cociu, head of the Fruit Breeding and Genetics Laboratory at Pitesti, Romania, paid us an extended visit in May, then visited stations in Canada and Michigan. At Traverse City, he landed at the airport at the same time as Air Force 1—got into line, and—yes, you guessed it—shook the hand of the President of the United States. Dr. Cociu visited us again last week, spoke at the Fruit Testing Association meeting, and toured plots with our fruit breeders. He also discussed accelerated flowering and disease resistance screening of apple seedlings with Herb Aldwinckle in Plant Pathology.

Dr. John McGrew from the Beltsville Agricultural Research Center visited with Al Braun, Herb Aldwinckle, and Bob Gilmer to discuss grape diseases.

Visitors to Pomology and Viticulture who also attended

the Fruit Testing Association meeting on September 18 included Marshall Ritter from Pennsylvania State University and Harvey Quamme, Harrow Station, Ontario, Canada.

LIBRARY CORNER

New in the Library

ADVANCES IN CARBOHYDRATE CHEMISTRY AND BIOCHEMISTRY, v. 31, 1975. Call number 612.396 P62.

Contents: Deamination of carbohydrate amines and related compounds; The reaction of ammonia with acyl esters of carbohydrates; Chemistry and biochemistry of apiose; Specific degradation of polysaccharides; Chemistry and interactions of seed galactomannans; The interaction of homogeneous, murine myeloma immunoglobulins with polysaccharide antigens; Bibliography of crystal structures of carbohydrates, nucleosides, and nucleotides, 1973.

ADVANCES IN FOOD RESEARCH, v. 21, 1975. Call number 664.8 M87.

Contents: Regulation of food intake; Animal physiology and meat quality; New concepts in meat processing; Physiology and biochemistry of mango fruit; Formation and control of chlorophyll and glycoalkaloids in tubers of *Solanum tuberosum* L. and evaluation of glycoalkaloid toxicity.

Bradley, J. D., W. G. Tremewan, and Arthur Smith. BRITISH TORTRICOID MOTHS. Classey, 1973. Call number 595.78 B72 (Ent. Library—replacement copy).

Holmes, H. L. STRUCTURE-ACTIVITY RELATIONSHIPS FOR SOME CONJUGATED HETEROENOID COMPOUNDS, CATECHOL MONOETHERS AND MORPHINE ALKALOIDS, in two volumes. Ralston, Alberta, Defence Research Establishment Suffield, 1975. Call number 615.7 H73 (gift of the author).

Many factors are involved in determining the degree of activity of drugs, amongst which there are, according to the author, four dominant factors: the rate of penetration of the drug to the receptor site; a fit factor between the drug and the receptor site; the rate of reaction or interaction between the drug and some component or components of the receptor site; and the rate of wastage of the drug on its way to the receptor site. This book discusses the research done over the last 15 years to demonstrate whether these four dominant factors are necessary and sufficient to account, at least in a semi-quantitative way, for the degree of biological activities of drugs.

International Plant Propagators' Society. COMBINED PROCEEDINGS, v. 24, 1974. Call number 631.53 In8.

Jeppson, Lee R., Hartford H. Keifer, and Edward W. Baker. MITES INJURIOUS TO ECONOMIC PLANTS. University of California Press, 1975. Call number 595.42 J 46.

The authors have together been able to provide a comprehensive survey of all available information on the taxonomy, biology, population dynamics, and control of each species known to be injurious to plants of economic importance. Included is information on mite distribution, descriptions of the injury they cause to plants, their role in the transmission of plant diseases, keys to the genera, taxonomic and field descriptions, and methods of sampling field populations, together with techniques for collecting, preserving, and preparing the mites for taxonomic study. This volume also includes information on the general characteristics of the Acarina, and separate chapters are devoted to population ecology, biologies of the natural enemies of mites, the history and principles of chemical control of plant-feeding mites, and their resistance to acaricides. Extensive new information is presented on the biology of the eriophyid mites, together with a new key to all the known

genera. The volume includes 142 original drawings of mites and 80 pages of photographs of mites and their injury to plants.

USDA. PESTICIDE REVIEW, 1974. Call number 353.81 P43d (basement annex).

Vickers, Zata. DEVELOPMENT OF A PSYCHOACOUSTICAL THEORY OF CRISPNESS. Ithaca, Cornell University, Ph.D. thesis, 1975. Call number 664.07 V66 (gift to the library).

PLASTICS IN AGRICULTURE. PROCEEDINGS OF THE Vth INTERNATIONAL COLLOQUIUM, Budapest, June 5-11, 1972. Organized by the International Committee of "Plastics in Agriculture." Budapest, Information Centre of the Ministry of Agriculture and Food, 1974. Call number 631.3 P69. (gift to the library).

Contents: World-wide development of the use of plastics in agriculture; Plastic equipments in horticulture; The use of plastics in mulching; The use of plastics in the package and storage of farm products; The use of plastics in cropping, water management and melioration; The use of plastics in animal husbandry; The use of plastics in farm mechanization and construction.

PERSONNEL NEWS

Bill Srmack returned to work in the Department of Pomology and Viticulture on September 25 as head orchard worker. Bill has worked at the Station since May 1974 in the Departments of Plant Pathology, Seed and Vegetable Sciences, and Pomology and Viticulture.

Ray Mallaber, Pomology and Viticulture, has been promoted to orchard manager II effective September 25. He joined Pomology in 1955 and was head orchard worker before his promotion.

John J. (Jack) Shannon retired September 20 after 36 years of service. When he retired, he held the position of orchard manager in the Department of Pomology and Viticulture. Jack was a loyal and dedicated employee and had advanced to the position of orchard manager in 1971 after the retirement of Anthony Bruni. The Pomology and Viticulture Department will hold a retirement party for Jack October 17, 1975 at the Holiday Inn, Waterloo.

Tom and Jan Baker were honored at a luncheon on September 11 in the conference room of the Entomology-Plant Pathology Laboratory. Tom has resigned to accept a position in the Department of Entomology, Michigan State University, East Lansing. There was a good turnout of well-wishers. Members of Wendell Roelofs' group participated in relating humorous anecdotes and tributes to Tom.

ENERGY SAVING

The time of year is rapidly approaching when we will again be concerned with saving as much fuel as possible for heating purposes.

Natural gas purchased by the Station has increased in cost by 45.2 per cent since September 1973 and 11.3 per cent since September 1974, while electricity has increased 33.3 per cent and 11.5 per cent for the same periods. With an already tight budget and a total utility cost of about \$300,000 per year, one can readily sense the importance of an energy conservation program to help offset rising costs.

In October 1973, Director Barton appointed a Station Energy Committee to study and recommend energy saving methods. This committee in cooperation with Buildings and Properties submitted a list of recommendations, many of which were put into effect immediately. Since then, other measures such as weather stripping, insulating sections of greenhouses, and installing new thermostats for better heat control have been completed.

Although many additional items have been "put on line" in the past 2 years which increase consumption, the above measures plus fine cooperation from employees have resulted in a 5 per cent net reduction in natural gas (therms)

consumption and 3.8 per cent net reduction in electrical (KWHs) consumption for the main campus.

Certainly, we hope these reductions can be improved upon in the future. However, we are not at this time making a "hard" set of rules and regulations designation when heat should be turned on in buildings, or what pieces of equipment should be run, or what meetings should not be held at night, etc. Instead, we are simply asking each individual to continue conserving as much heat and electricity as possible. This means turning off lights and equipment when not in use, wearing warm clothing, coordinating use of equipment such as growth chambers, reducing lighting in greenhouses when possible, turning off radiators when too warm, not wasting hot (or cold) water, keeping shades and curtains drawn when practical, lowering thermostats, scheduling only Station oriented meetings at night, etc.

With each individual assuming a part of the responsibility by doing his or her part, not only will the Station benefit financially, but the shortage of an ever precious commodity known as energy will be alleviated.

BUSINESS OFFICE NOTE

The custodial staff has recently been "hit" with a series of illnesses. Henry Marino, Food Science, who was hospitalized on September 5, is now recuperating at home. Hank hopes his doctor will allow him to return to work soon after October 1.

Oliver Rouse, Entomology-Plant Pathology, is a patient at Newark Wayne Community Hospital, Newark, New York where he is undergoing tests.

Also, a couple of other custodians had to take time off recently because of illness.

The rest of the staff have been picking up the slack to the best of their ability. However, with such a shortage of manpower and the necessity to shift personnel, some buildings and areas may not receive full attention. Hopefully, the staff will be back at full strength soon. In the meantime, your cooperation and patience are requested.

NOTE OF INTEREST

Sigma Delta Epsilon is offering research grants-in-aid of \$750 to women. Preference to those over 35 years old. Deadline is February 1, 1976. Forms and information: Dr. Sandra R. Grabowski, Department of Biological Sciences, Purdue University, W. Lafayette, IN 47907.

THE CHATTER BOX

Des Dolan gave a talk on September 18 to the Syracuse Men's Garden Club on vegetable and ornamental introductions that have been used in breeding.

Harvey Reissig and Sieg Lienk went to Biglerville, Pennsylvania and Winchester, Virginia on September 8 and 9 to observe fruit plots or current research on fruit and insect and mite control.

SYMPATHIES

We were saddened to learn of the death of Hugh Iddings on September 22. Hugh had been head custodian here at the Station before his retirement November 1, 1972.

We extend our sympathies to Robert Musselman, Pomology and Viticulture, on the death of his father on September 10.

Our sympathies are also extended to Barry and Nancy Smith on the death of Barry's father, Orlo Smith, on September 20. Barry is employed in Buildings and Properties and Nancy works in Food Science.

GENEVA JOB OPPORTUNITIES

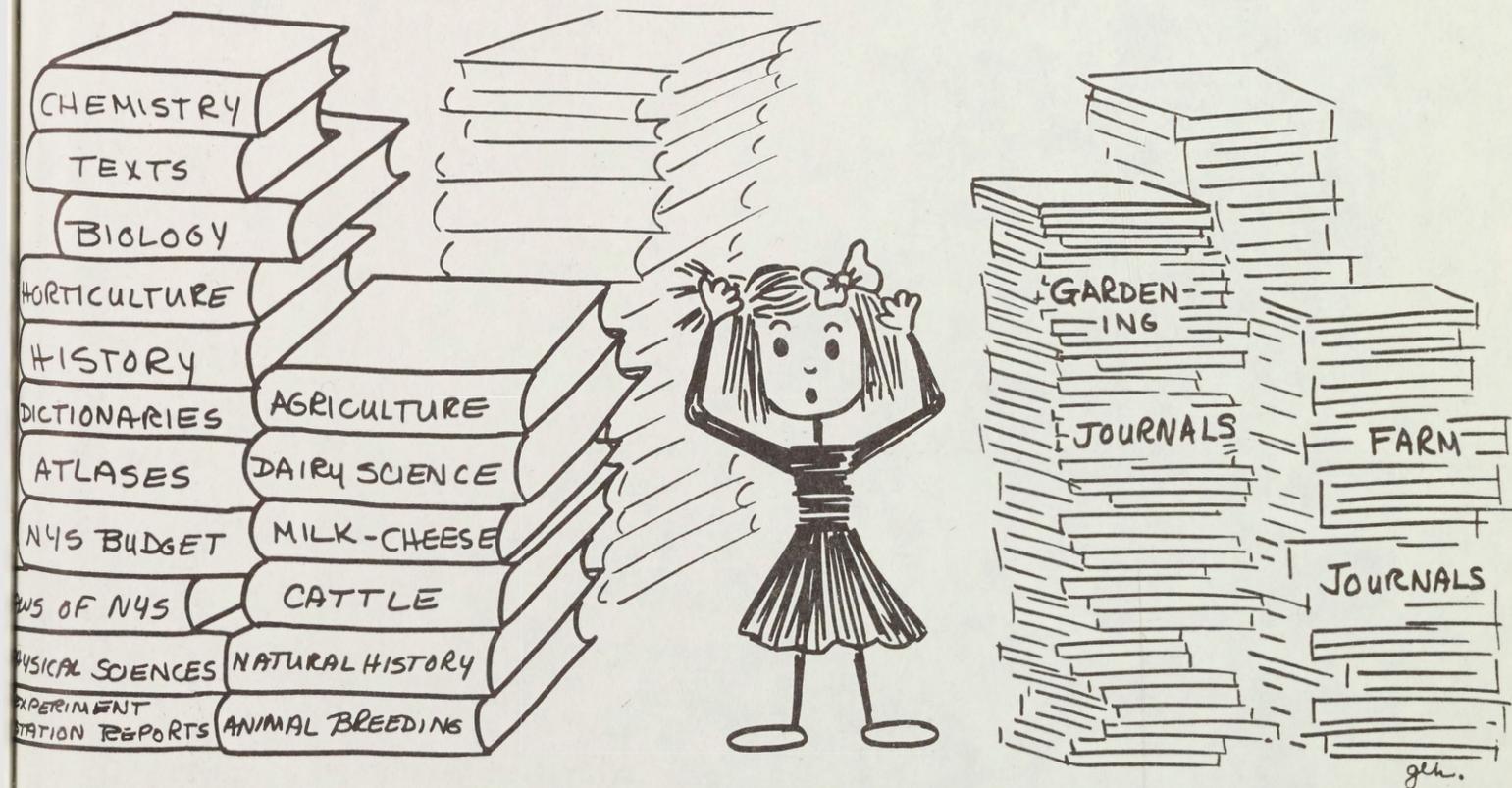
Lab. Assistant I (NP-3)—Department of Entomology (temporary - 1 year)

Research Associate—Institute of Food Science and Division of Nutritional Sciences
 Experimentalist I (NP-11)—Department of Seed and Vegetable Sciences

WEATHER

		Max.	Min.	Rain
September	1	68	53	.05
	2	67	56	.05
	3	75	50	
	4	65	49	
	5	70	52	
	6	75	58	.23
	7	70	52	
	8	71	53	
	9	75	50	
	10	60	41	
	11	66	52	
	12	80	54	.44
	13	59	42	.07
	14	57	41	.02
	15	59	40	
	16	63	50	
	17	59	53	.08
	18	68	52	tr.
	19	62	57	.50
	20	73	59	
	21	72	51	.11
	22	69	52	
	23	61	49	
	24	65	49	.15
	25	55	49	.77
	26	58	50	3.92
	27	65	52	.01
	28	60	47	.03
	29	65	41	
	30	69	49	

Book Sale



On October 25, 1975 between the hours of 9 A.M. and 5 P.M., the library will be sponsoring the First Annual Library Book Sale (future sales to be determined by the success of this one!). Because of the need for space, as well as the need to weed out-of-date and unused materials, we will have on sale books in the fields of agriculture and the sciences, as well as popular gardening and farm journals. Each book, or tied group of journals, with a few exceptions, will be 50¢. These books and journals are available for perusal until October 25. Please save the date and spread the word. We look forward to your helping make this a success.