

# The M.S.C. Record

Published by and  
for the Alumni and  
former Students of  
the Michigan State  
College.  
-East Lansing.

**Horticultural Number**

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ENTERED AT THE EAST LANSING  
POSTOFFICE AS SECOND CLASS  
MATTER.

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**VOLUME XXXI**

**January 18, 1926**

**NUMBER 15**



Luther Burbank

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# THE M. S. C. RECORD

Established 1896

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ROBERT J. McCARTHY, '14, Editor.

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Union Memorial Building

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# THE M. S. C. RECORD

Vol. XXXI. No. 15

EAST LANSING, MICHIGAN

January 18, 1926

## ALUMNUS TELLS OF FIELD FOR GROWER

*Experienced Orchardist Tells of Path to Success On the Producing End; Limited Capital Barrier to Many Who Wish to Make Start; Rural Districts Need Stimulus of College Graduate's Training.*

By Floyd Barden, '08

It seems that the majority of horticultural graduates seek positions as teachers, agricultural agents and investigators rather than engaging in the business of commercial fruit growing. Whether this is prompted entirely by the opportunities offered in these positions as compared to those to be found in commercial work is not for me to say. This much is evident, that unless the graduate has land of his own or that which he can secure rather easily, the financial demands immediately after graduation are so imperative that he is obliged to enter something that will bring immediate returns. Thus it appears that the commercial work so far as the new graduate is concerned is almost limited to one who can step onto the home farm and immediately receive returns for his investment. After all, the education is largely an investment, although some seem to return rather a low rate on the principal.

During the months closely associated with my graduation I conferred with different ones of the teaching force, with whom I was most intimate, in regard to engaging in their line of work or going back to the home farm. Their answer was invariably the same:—"Return to the farm, as we are all anxious to get on a farm of our own as soon as we can accumulate enough financially". I believe these men really meant what they said, but either they have not made the accumulation or else the opportunities of their positions have proved too attractive, because to my knowledge not a single one is to be found on a farm as yet. This is very good evidence to me that unless one engages in the direct growing of fruits soon after

graduation there is little likelihood that he ever will.

What then are the opportunities that should appeal to the graduate to cause him to turn his attention to practical fruit growing? Eighteen years ago I could have written a much more enlightening article on this subject than is possible at present. Yet some things have been proved so definitely that I can make a few positive statements. It is very easy to dream of splendid financial returns, but the realization is generally quite different. One has the privilege of cooperating with Nature in producing beautiful fruit, but quite often Nature is too vigorous in some one way and the result is failure so far as that particular year is concerned. But hope is the great sustainer of the fruitgrower, spurring him on to greater activities for the year that follows. Thus in spite of discouragements, the years are very sure to come when there will be splendid returns. These years of reverses must be anticipated, and the financial returns must be computed over a span of years, rather than for a short period. I am convinced that the young graduate who will seek a proved location for his special fruit, then using his accumulated knowledge along with a good lot of hustle and hard work, is reasonably sure of realizing a good financial return.

But the financial goal is not the only one to be considered. The rural districts of Michigan need the awakened intellect and broadened perspective of the college graduate. Furthermore, the graduate has a duty to perform here that should partially recompense the state for the expense incurred in his education. Positions of trust in public office, in connection with local

government and school affairs, are awaiting the individual of college training, and he has a duty here that he dare not shun. The rural church is in sad need of more material such as our State College is capable of returning to these districts. Yet how few realize their opportunities and duties in this connection. Organization work among the agricultural followers requires a real dirt farmer, but how much more efficient he may be if college training is back of it. In other words, I believe the college graduate should not always be considering where he can best further his own interests; but rather where his abilities can best be used to be of greatest service to others.

In passing, I am led to drop this word, that possibly nothing so brings depression to the graduate ten years after he has returned to the farm, than to read of the great accomplishments of his classmates in various lines of activity, then to see after his own name the simple word, "farmer". Yet what a world of meaning may be conveyed in that one word.

In conclusion, I think it necessary to place emphasis upon the fact that good hard work must be an outstanding virtue of the young man in order to advance in a commercial enterprise. Also that a co-operating co-ed is a great boon to the proposition.

NOTE—Barden owns and conducts a large fruit farm near South Haven and his article is based upon personal experience.

## WASHINGTON CENTER FOR HORT GRADUATES

By W. A. Taylor, '88

Several members of the Washington M. S. C. Association are engaged in horticultural work. Among these are C. A. Reed, '05, associate pomologist, and E. R. Lane, '85, assistant pomologist, who are investigating various problems of nut culture in the bureau of plant industry. C. P. Close, '95, is associate horticulturist in the office

of cooperative extension work, of which C. B. Smith, '94, has charge. F. H. Hillman, '88, associate botanist in the seed laboratory of the bureau of plant industry, identifies horticultural as well as agricultural seeds. H. C. Skeels, '98, assistant botanist in the office of foreign seed and plant introduction of the same bureau, handles the identification work in that line. C. G. Woodbury, '04, is in charge of the crop production activities of the National Canners association, which are largely horticultural. Lee M. Hutchins, '13, associate pathologist in fruit disease investigations in the bureau of plant industry, is specializing on diseases of the peach. H. C. Diehl, '19, is a junior physiologist in the bureau of plant industry, working on fruit handling problems. R. R. Pailthorp, '13, is a marketing specialist in the bureau of agricultural economics. The work of E. W. Brandes, '13, senior pathologist in charge of sugar plant investigations, is so essential to the horticultural industry that he might be included in the list. Also that of G. H. Collingwood, '11, who is extension forester in the forest service, and that of Edwy B. Reid, '12, who has charge of the Washington office of the American Farm Bureau federation. David Fairchild, our only "native son" in Washington, who has charge of the office of foreign seed and plant introduction in the bureau of plant industry, belongs in this category, at least by courtesy, through having started on the campus in 1869 when his father, Dr. George Fairchild, and uncle, Dr. R. C. Kedzie, were on the faculty. A number of horticultural alumni are engaged in the horticultural work of the department in other parts of the country.

NOTE—Mr. Taylor's modesty has prevented him from mentioning the fact that he himself is chief of the bureau of plant industry in the U. S. Department of Agriculture.

This past year 17 men have been registered for graduate work in horticulture.

## "Close Beside The Winding Cedar"

Nineteen men are registered for the regular 8-week short course in horticulture.

The federated department of agriculture of Uruguay has recently had translated into Spanish for the use of their fruit grower. Mr. Marshall's recent experiment station bulletin on pruning.

The old horticultural building, the first in America to be devoted exclusively to work in horticulture, was built and equipped in the eighties for \$6,500. The new building, its accompanying greenhouses and equipment, represent an investment of \$400,000.

Three new one-week short courses in horticulture are being offered this year. One, designed especially for market gardeners and truck farmers, comes the week preceding Farmers' Week. A second, especially for fruit growers and nurserymen, comes right after Farmers' Week. The third, for amateur gardeners comes late in March. It is planned especially for those who wish to know how to make the best use of horticultural materials in and about the home.

V. R. Gardner, '05, professor of horticulture, recently appeared on the program of the Kentucky State Horticultural society and H. A. Cardinell on the program of the New Jersey State Horticultural society. Next week Mr. Starr is to address the meeting of the National Canners and National Pickle Packers associations in Louisville, Kentucky. Mr. Marshall has recently been asked to assume responsibility for the articles appearing in *Fruits and Gardens*, the renamed Fruit Belt, recently sponsored by the American Pomological society. Mr. Bradford has been serving as horticultural editor of "Botanical Abstracts". Mr. Loree has recently been contributing a number of short articles on small fruit growing for the new monthly "Country Gentlemen."

This year 14 of the senior and 24 of the junior students in agriculture are majoring in horticulture; in addition to these numbers, 8 seniors and 11 juniors are majoring in landscape gardening.

A. J. Rogers of Benzie county, Michigan, formerly president of the Michigan State Horticultural society, has a short-term appointment as a member of the experimental staff of the horticultural department. He is assembling some data on management methods for Michigan cherry orchards.

The new greenhouse range made possible the introduction this last term of regular courses of instruction in commercial floriculture. Seven students have registered for this work, most of whom spent the Christmas recess in the employ of Detroit wholesale and retail florist firms acquiring a bit of practical experience.

Two post graduate students in horticulture, Gaston and Teske, presented two of the most widely discussed papers at the recent annual meeting of the Michigan State Horticultural society in Grand Rapids. Gaston's paper was on the "Relative Importance of the Different Factors Which Go to Produce Cull Apples". Teske's paper was on the "Relative Importance of Different Factors Affecting Profits in Raspberry Growing in Michigan".

One of the most interesting and also what is proving one of the most valuable pieces of equipment in the research laboratory of the new building, is a specially-constructed Frigidaire freezing outfit. This machine can be adjusted to maintain in its chambers automatically for an indefinite period temperatures ranging from several degrees above freezing to  $-12^{\circ}$  F. It is in almost constant use for experimental studies by members of the department's experiment station staff and graduate students.

## SPECIAL HORTICULTURAL PROGRAM

*Farmers' Week Meetings to Be Featured by Addresses by Noted Men in All Branches of the Work; Three Days' Activities Outlined by College.*

Alumni are prominent in the list of speakers for the horticultural sessions of Farmers' Week. Jason Woodman, '82, President Butterfield, '91, C. G. Woodbury, '04 L. H. Bailey, '82, V. R. Gardner, '05, F. B. Mumford, '91, B. J. Manahan, '07, will present a variety of subjects

### WEDNESDAY, FEB. 3

AUDITORIUM, HORTICULTURAL BUILDING

PROGRAM OF THE MICHIGAN STATE HORTICULTURAL SOCIETY

- 9:30 Does It Pay to Prune Mature Apple Trees for Quality Production?—R. E. Marshall, Michigan State College.
- 10:00 The Relation of Pollination to Fruit Yields—E. C. Auchter, University of Maryland.
- 11:00 Makers of Horticulture—F. C. Bradford, Michigan State College.

### THURSDAY, FEB. 4

AUDITORIUM, HORTICULTURAL BUILDING

DEDICATION DAY

- 9:30 The Fruit of the Tree.—President K. L. Butterfield, Michigan State College.
- 10:00 "High Spots" in the History of Michigan Horticulture.—JASON WOODMAN, Paw Paw.
- 10:30 The Experiment Station and the Michigan Vegetable Grower.—Rudolph Yonkers, Grand Rapids.
- 10:45 What the Fruit Grower and Nurseryman Expects of the College.—George Hawley, Hart.
- 11:15 The Greenhouse Industry and the College.—Elmer Smith, Adrian.
- 11:30 Tendencies in American Horticulture.—Charles G. Woodbury, Washington, D. C.

### THURSDAY, FEB. 4

COLLEGE GYMNASIUM

- 2:00 Concert by College Orchestra.
- 2:20 The Prospect.—President K. L. Butterfield, Michigan State College.
- 3:00 A Retrospect.—L. H. Bailey, Ithaca, New York.
- 6:30 Motion Pictures.
- 7:00 Music.—College Orchestra.
- 7:30 The Mobile Front in Horticulture.—V. R. Gardner, Michigan State College.
- 7:50 The Necessity of Agricultural Research in the Formation of National Policy in Agriculture.—F. B. Mumford, University of Missouri.

- 8:30 A Better Place in Which to Live.—F. A. Waugh, Massachusetts Agricultural College.

### FRIDAY, FEB. 5

AUDITORIUM, HORTICULTURAL BUILDING

JOINT PROGRAM OF MICHIGAN STATE HORTICULTURAL SOCIETY AND MICHIGAN STATE NURSERYMEN'S ASSOCIATION

- 9:30 Nurserymen's and Fruit Growers' Problems.—B. J. Manahan, Detroit.
- 10:00 The Outlook for Nurserymen for 1926.—One minute talks by members.
- 10:15 An Analysis of the Apple Variety Question.—V. R. Gardner, Michigan State College.
- 11:00 The Variety Question from the Standpoint of the Grower.—A. J. Rogers, Beulah.
- 11:30 The Plant Material Bulletin.—C. P. Halligan, Michigan State College.
- 11:45 The Fruit Growers' and Nurserymen's Short Course.—F. C. Bradford, Michigan State College
- 1:30 Business meeting Michigan State Nurserymen's Association.—Auditorium, Horticultural Building.

### FRIDAY, FEB. 5

ROOM 308, HORTICULTURAL BUILDING

- 9:30 Address by President of Michigan State Florists Association. — Elmer Smith, Adrian.
- 10:00 Plant Growing Under Glass.—H. B. Dornier, University of Illinois.
- 11:00 Retail Florist Shop Management.—Frank Schram, Toledo.
- 11:45 Floral Designing.—Myron Bloy, Detroit and Alex Laurie, Michigan State College.

## URGES COOPERATIVES AS PROMISING FIELD

By F. L. Granger, '14

In every field of human endeavor, opportunities exist for those who can recognize and make the most of them. That statement is just as applicable to the marketing specialist in the horticultural field as in any other; possibly more so just now, because this phase of the industry is being subjected to rapid change and development

at this juncture. People have always consumed fruits and vegetables and probably always will, but the business of national marketing of these products had its inception with the invention and improvement of the refrigerator car in the closing years of the last century. In the past ten years the production and shipment of fruit and vegetable products has doubled; more than a million carloads being transported to consuming centers last year.

Co-operative and corporate plans of marketing each have their advantages, with possibly the co-operative form more in the public eye at present due to governmental publicity and governmental desire to assist the producer. I have served under both types of organization in the twelve years since my graduation from M. A. C. and while it is a little difficult to draw any well defined conclusions from that experience, I am inclined to think that for the future horticultural graduate greater opportunities for service might lie in the co-operative field. The co-operative marketing

organization is distinctly a youngster in business in this country today. To make it fulfill all its possibilities we need a generation of co-operative education amongst producers in the science of co-operative production and management. That there is a real science in the handling of co-operative enterprise is evidenced by comparison of the outstanding results of the proven successes and the outright failures marking co-operative history. Granting, then, that there is a real science here, the college trained man ought to carry a distinct advantage in applying his talents in this field. If he has the desire and ability to serve, the reward will take care of itself.

NOTE—Granger is sales manager for the Michigan Fruit Growers, Inc., and has charge of the marketing of a large fruit crop.

**CLASS NOTES**

Alumni who have followed horticultural and landscape work were circularized by



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Professors Gardner and Halligan and the following information was collected from the replies received.

## '02

Titus Glenn Phillips, landscape architect and city planner (professional practice), 1201 Kresge Building, Detroit. "This office made designs for subdivisions during the past year of nearly 15,000 acres of land including two town-sites, two golf clubs, etc. Have developed many parks and recreational areas besides numerous private estates."

## '05

Harry Owen is in charge of the seed and bulb farm of the Vaughan Seed company of Chicago. This is located near Ovid, Michigan. Mr. Owen has come to be regarded as one of the leading gladiolus specialists in America.

## '07

Daniel H. Ellis, landscape gardener, 616 Owen street, Saginaw. "Have been in business for myself for the past six years, doing general landscape work; also growing ornamental trees, shrubs and perennials. Previous to this was superintendent of parks for the city of Saginaw."

T. H. McHatton, professor of horticulture in the University of Georgia, doesn't advise any student to go into college teaching. However, it is not difficult to read between the lines and see that he himself does not regret having entered this field.

## '08

Jesse G. Boyle, supervisor of landscape courses at Purdue university from 1908 to 1917. At present, owner and operator of fruit and muck farm; also affiliated with the following organizations: supervisor of Buchanan township; president of Grower-Consumer Direct Sales service, Chicago, Ill.; president of Berrien county farm bureau; president of St. Joe Valley Shipping association, R. F. D. No. 2, Buchanan, Michigan, director of state farm bureau.

## '09

W. C. Trout, Supt. of Ella W. Sharp park, c-o Ella W. Sharp park, R. F. D. 1, Jackson. "We are just closing our eleventh working season. Next year we will have a fine 18 hole course and a comprehensive start on our new zoo. We are now working for an addition to our much appreciated rose garden."

## '10

C. Edmund Smith, superintendent forestry and landscape, department parks and buildings, 600 Marquette Building, Detroit. "Developing 2000 acres new parks, 40 miles new street, planting 200 acre nursery, maintaining a couple of thousand miles street trees, parks and boulevards."

## '11

Virgil T. Bogue, proprietor of Geneva Nurseries, 56 Eagle street, Geneva, Ohio. "Am working at my profession specializing in home planting. Am conducting a nursery that I may better serve my clients."

B. W. Keith is now with Keith Brothers Nursery, of Sawyer, Michigan. This firm makes a specialty of "small fruit" plants, with some attention to ornamentals.

James G. France is county agricultural agent for San Diego, California. Among things of interest to eastern fruit growers, he reports a rapidly increasing acreage in that section of grapes of the Concord type.

During the winter season while things are more or less at a standstill on his truck farm near Lansing, Austin L. Pino acquires some good experience along horticultural lines that better equip him for his work. One winter he was with the state department of agriculture as inspector of perishable products. This winter he is in charge of the fresh fruit and vegetable department of a grocery doing large business. He says it is giving him a slant on the consumer's point of view that isn't to be obtained in classroom, laboratory, or even in the field.

## '12

A. D. Badour, landscape architect with Ferruccio Vitale, 101 Park avenue, Room 1706, New York City. "Received my master's degree in landscape architecture from Harvard, school of landscape architecture, in June 1925."

H. Lee Bancroft, superintendent of parks and city forester, Room 201, City Hall, Lansing. "Three 'State' men with department beside myself. Nearly 500 acres of parks. We have our own green houses, municipal zoo and 18 hole golf course now."

## '13

Wm. L. Davidson, Wm. L. Davidson & Co., real estate and investments, 69 Wisconsin street, Milwaukee, Wis. "While not landscaping, I am selling and financing dirt; building some buildings; living in a good town, and enjoying life. Best wishes."

H. A. Schuyler is manager of the Leffingwell Rancho Lemon association of Whittier, California. He writes that the activities of the Hort Club loom up prominently in his memory of the things incident to his college course that have been of value to him.

J. A. McClintock is experiment station horticulturist in the University of Tennessee. He writes that the student who best prepares himself in chemistry, physics, zoology and botany is the one who will have the best chances in research work in horticulture. However, he adds; "with all due respect to our old horticultural faculty in the classrooms, I am of the opinion that some of their best lectures were given at

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the Horticultural Club meetings without reference to lecture notes."

Since his graduation, I. T. Pickford has acted as manager of an orchard in southern California, and later of one in northern Michigan. He has also served as county agricultural agent and as an extension specialist in horticulture. Now he is one of the Michigan field agents of the Niagara Sprayer company, with headquarters at Hart, Michigan.

'14

Ralph I. Coryell, secretary-treasurer, The Coryell Nursery, Birmingham. "The Coryell Nursery bought another farm this summer, giving us three farms now with total of about 185 acres, about 80 acres of which is planted with nursery stock. Writer has built and landscaped three homes to date."

A. W. Dorgan, landscape architect, R. F. D. 1, Birmingham. "Designing subdivisions and estates in this rapidly developing district."

Clayton R. Garlock, Smith Hughes agriculture teacher and head junior high school science, 603 W. Ohio street, Bay City. "On the side I am growing choice gladioli and doing a little landscaping. I have also a small greenhouse as another side line. Altogether I have plenty to keep me busy."

'15

P. R. Taylor is with the bureau of markets

of the Pennsylvania state department of agriculture.

L. H. Gork, assistant superintendent parks, Grand Rapids.

B. Eldon Shaffer, assistant business specialist, U. S. bureau of agricultural economics, division of fruits and vegetables, Washington, D. C. "Official duties: Am in grades and standards research work for federal inspection of fruits and vegetables. Work in Florida on citrus; in Texas on figs; Arkansas, Michigan and New York on grapes; Virginia and Florida on potatoes. Unofficial duties: Florida real estate."

'16

Wm. J. Atchison, landscape architecture, nurseryman, and contractor. "Present occupation: Playing a game of chess with the weather man—trying hard to avoid a check-mate."

Myrl E. Bottomley, landscape construction with Lincoln Maire, 58 Lakeview avenue, Grosse Pointe, Mich. "Teaching at Iowa State college for past three years; now executing plans for Mr. Phillips and other landscape architects."

Herb. G. Cooper, South Lansing Real Estate company, South Lansing, Michigan. (Applying his training in landscape to making of subdivisions and sale of the lots.)

Floyd A. Carlson, landscape architect, director of parks and public properties, Kenosha, Wis. "Last week I received an offer from Harland

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Bartholomew, city planner of St. Louis, to take charge of their newly created landscape department. My work with this firm will be laying out subdivisions, golf courses, and so forth, together with city planning studies that they are doing for cities over the entire United States. I am, therefore, leaving my position as director of parks in Kenosha sometime in January."

'17

H. V. Abel, carlot distributor of fruits and vegetables at Harrisburg, Pennsylvania, thinks that more stress could well be given to courses fitting men for positions along distribution or merchandising lines.

Gilbert Clegg, assistant superintendent forestry and landscape division, department of parks and boulevards, 1532 Collingwood avenue, Detroit. "Work mostly execution of plans—doing very little designing. Married—no children."

R. L. Mairc, landscape architect, 16710 Jefferson avenue, Grosse Pointe, Mich.

E. W. Pinckney, Hugh-Lyons Co., Lansing. Advertising manager of their window display fixture division, 711 Britten avenue, Lansing, Mich. Married last June. (A personal visit to the factory the other day assured me that "Pinck" was successfully applying his artistic sense to the design of window display fixtures.)

Glenn S. Thomas, assistant manager wholesale department, Stark Bros. Nursery & Orchard Co., 702 Georgia street, Louisiana, Mo. "Work covers

# PARKE'S Canned Goods

Unmatchable

FRUITS and  
VEGETABLES

No. 10 Tins

Choicest Quality in All Varieties.  
Selected and Packed with  
Greatest Care.

## L. H. Parke Company

Philadelphia

Pittsburgh

**Protects** ORCHARDS  
**VINEYARDS**  
**SHADE TREES**  
 Against Climbing Insect Pests



**C** LIMBING insects cannot cross a band of Tree Tanglefoot—a sticky material applied in narrow bands to the trunks of trees and grapevines. It is especially recommended against Climbing Cutworms, Canker Worms, Gypsy, Brown-tail and Tussock Caterpillars and Ants.

**Outlasts all Substitutes**

One pound makes 12 lineal feet of band three-inches wide. It remains effective three to four months, *outlasting all substitute materials from 10 to 20 times.*



Tree Tanglefoot is quickly and easily applied with a wooden paddle. For tree surgery nothing equals this material. It waterproofs crotches, wounds and cavities when nothing else will. Leading horticulturists everywhere endorse it. Seed, hardware and drug stores sell it. Prices: 25-lb. pail \$11, 10-lb. can \$5.25, 5-lb. can \$2.75, 1-lb. can 60 cents.

(85) *An illustrated book on leaf-eating insects sent free on request*

**THE TANGLEFOOT COMPANY**  
 GRAND RAPIDS, MICHIGAN

**TREE** →  
**TANGLEFOOT**

*D*

Bell Phone 6289

**H. V. ABEL**Carlot Distributor  
Fruits and VegetablesParkside Building  
Harrisburg, Pa.**T. GLENN PHILLIPS**

LANDSCAPE ARCHITECT and CITY PLANNER

Fellow—American Society of Landscape Architects  
American Institute of Town Planners

KRESGE BUILDING DETROIT, MICHIGAN

**DANIEL H. ELLIS**LANDSCAPE GARDENER  
and  
NURSERYMAN

616 Owen St.

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**THE C. & L. FILLING STATION**

Richard Sullivan, '17 H.

RED CROWN AND SOLITE GASOLINE  
POLARINE OILS

FREE CRANK CASE SERVICE

Corner North Avenue and Pine Street  
MOUNT CLEMENS, MICH.**THE CORYELL NURSERY  
GROWERS OF HARDY NURSERY STOCK**R. J. Coryell, '84      Ralph I. Coryell, '14  
I. Wangberg, '25

West Maple Ave.

Birmingham, Mich.

— THE —

**Grand Rapids Savings Bank**

Grand Rapids, Michigan

**"The Bank Where You Feel at Home"**

M. A. C. People Given a Glad Hand

Charles W. Garfield, '70, Chairman Executive Com.  
Gilbert L. Daane, '09, President

C. Fred Schneider, '85, Manager Division Branch

Benj. C. Porter, '84, Manager South G. R. Branch

Benj. C. Porter, Jr., '11, Asst. Manager South

G. R. Branch

Willis Vandenburg, '21, Manager Fulton St. Branch

WARD ROHNERT  
Gilroy, Calif.WHOLESALE SEED GROWER  
SELECTED STOCKS2,500 acres California's best land devoted to small  
garden seed production.

both ornamental and fruit tree sales. Eight years in one place."

'18

Glen I. Blades is divisional sales manager for the Federated Fruit and Vegetable growers, with headquarters in Rochester, N. Y. This is a national cooperative sales agency serving the fruit and vegetable industry as a whole.

E. F. Eldridge, chief chemist, water laboratory, Michigan Department of health, 230 W. Grand River avenue, East Lansing, Mich. "Our major problem at present is the attempt to relieve Michigan's lakes and streams from pollution."

Robt. Wm. Essig, president, Pontiac Nursery Co., 616 Buckingham road, Birmingham, Mich. "I will be very glad to talk with any students who are interested in the nursery or landscape architecture line. There is a big future in the latter line and any going man studying this should become associated with a reliable nursery concern after leaving school. They should do this before contemplating a business of their own."

P. J. Hoffmaster, superintendent of State Parks, 927 W. Ottawa street, Lansing, Mich. "My work concerns the acquiring, development, and management of your state parks. There are 53 in number, of which 20 have had no development. Attendance this summer will total close to 2 1-2 million people."

**MICHIGAN  
SUPPLY  
CO.**

Jobbers of

**National Pipe, Red Jacket  
Pumps, Water Supply  
Systems and Softeners  
Steam and Plumbing  
Supples, Dodge Power  
Transmission**

Corner Grand and Ottawa

LANSING, MICHIGAN

# NIAGARA DUST and DUSTERS

EVERY YEAR MORE GROWERS ARE USING THE NIAGARA METHOD BECAUSE THEY FIND DUSTING IS THE MOST DEPENDABLE METHOD OF PROTECTING THEIR FRUIT AND CROPS FROM THE RAVAGING INSECTS AND DISEASE.

Fruit Dusters  
and  
Dusts

for every phase of  
**ORCHARD  
PEST  
CONTROL**



**CROP  
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that are  
mechanically  
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**Dusts**  
that are  
scientifically  
correct.

Write for our new folder describing

## KOLODUST and KOLOTEX

THE NEW DUSTS THAT STICK THROUGH RAIN AND WIND

### The Niagara Sprayer Company

MIDDLEPORT, N. Y.

# Longer Years of Service

**N**O agricultural machine made is put to such trying tests as the Sprayer. First there are weeks of idleness when it is menaced by rust. Then comes the terrific grind and high pressure, hour after hour and day after day, when sand, dust and chemicals may work viciously at unprotected bearings. But look, Hardie is now providing a



## DUST-PROOF HOOD

which gives the utmost in protection. Hardie Sprayers have always enjoyed the reputation for unusually long life through perfect alignment, micrometer fit and protective housings. But now we have the ultimate—the hood—made possible by the Hardie cooling system. A non-chokable circulating pump connected with pipe coils immersed in spray tank keeps up a continuous circulation of cool water through engine—a simple yet perfect cooling system. This is only one of many exclusive Hardie features insuring greater operating efficiency and longer life. Following herewith are a few of the other features briefly described.

**Light Weight Cushman Engines**—weigh less than 50 lbs. per horse power—one of the reasons why Hardie Sprayers give the greatest power per 100 lbs. of weight. An automobile type engine with throttle governor, float feed carburetor, gravity gas feed, counter-balanced crank shaft and force feed oiling system. Has ample power for highest spraying pressure.

**Pumps That Eliminate 90% Wear**—Plungers have two sets packing to make them all wear comes on these; replaceable in one minute. No crosshead or guide. Porcelain lined plungers. Bronze bearings. Extra heavy crank shafts. Machine cut gears. Light running yet gives high pressure and capacity. Has accurate pressure regulator.

**Underslung Autoplex Trucks**—have low center of gravity, as the load is carried but 12 inches from the ground. Insures ease traction through use of large wheels, broad tires and wide track. Safe on side hills. Pivoted wheels (as on auto) prevents pole-whipping and allow turning in 20-ft. circle. Rocking bolster relieves strain on frame on rough ground.

**Steel Frame**—lightest and strongest ever used under a sprayer.

**Suction Setting Chamber**—stops the rapid movement in suction line long enough for sand and heavy foreign matter to collect and settle before the spray liquid passes to pump.

**Porcelain-Lined Cylinders**—made from semi-steel castings, machined to a gun-barrel finish. Coated by an improved process with very hard porcelain. Bore is perfectly true and hard as glass.

**Air Cleaner**—has proven 99% efficient in dust separation. Cleans automatically by centrifugal action. Treats 25% more air than the engine uses. Small, compact. Means longer life for engine.

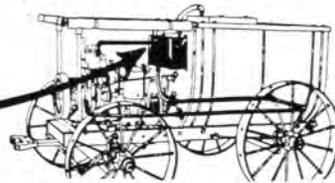
**New Hardie Gun**—gives a wider range than any gun heretofore and gives perfectly even distribution. Makes a mist as the finest nozzle and throws it a greater distance than ever before accomplished. Completely controlled by less than a quarter turn of handle.

**Hardie Dealers Are Plentiful** in every fruit section. Complete stocks of parts are carried on hand. "Service seldom needed, but SERVICE when you do need it."

Write for Our New Catalog. Get Acquainted With the Hardie Line

**HARDIE MANUFACTURING CO.**

HUDSON,  
MICHIGAN



**H** DEPENDABLE  
**HARDIE**  
SPRAYERS

# KING GREENHOUSES

*The Choice of Michigan State College*



When Michigan State College of Agriculture and Applied Science decided to build a greenhouse range, King Greenhouses were chosen only after a careful study, investigation and comparison of all types of greenhouses.

The choice of King by M. S. C. and many other leading schools, colleges and universities is proof that for strength and brightness and for general growing purposes King Greenhouses are never excelled and seldom equalled.

You, like hundreds of other growers in the United States, can confirm the decision of your Alma Mater by choosing a King when you build your next greenhouse.

Catalogs fully explaining and illustrating why King Greenhouses are better will be sent on request without cost or obligation to you.

“When you think of good greenhouses think of King.”

## King Construction Company

GREENHOUSE BUILDERS

North Tonawanda, N. Y.

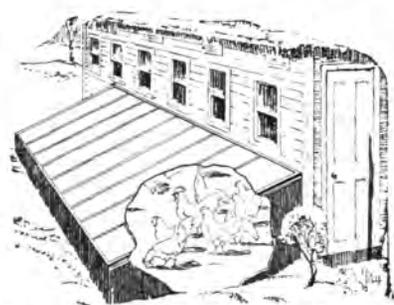
# GLASS CLOTH

(Patented)

## Build a Sunshine Brooder!

Save More Chicks

**Y**OU need GLASS CLOTH now for those early hatches of baby chicks. Nothing protects them so thoroughly from draughts, dampness and cold as a GLASS CLOTH scratch shed. They keep healthy and strong through the first critical three weeks, and grow rapidly into profit producers—high priced early broilers or heavy, early, steady layers.



More Eggs Now While Prices Are Still High



In no time at all you can build a GLASS CLOTH shed onto your poultry house. GLASS CLOTH is so easy to use and so much cheaper than glass; in a GLASS CLOTH shed your hens thrive amazingly—are warm, healthy, get plenty of exercise and **keep on laying** despite zero weather outside. This means more eggs while **prices are still high**—more profits in poultry for you.

### Don't Force Chicks to Die

By chilling, huddling, losing vitality and finally dying. Keep your chicks busy scratching in comfortable GLASS CLOTH quarters and they will work up strong vitality and grow husky.

### Ideal for Hot Beds



### Special Tomato Seed

We maintain a specialist in the far north to grow select John Baer, Earliana, Bonny Best and Red Head seed and can furnish the best that can be bought at any price.

### Early Vegetables

There is big money in early vegetables and raising plants to sell. Get your garden started early under a GLASS CLOTH hot bed. Have plenty of vegetables for the market and your own table. GLASS CLOTH grows stronger and hardier plants than under glass.

### SPECIAL TRIAL OFFER

A Big Roll containing 15 square yards (135 sq. ft.) (Will cover scratch shed 9x15 ft.) will be sent you prepaid on receipt of \$5.00. Use this for scratch shed or poultry houses, hot beds, cold frames, storm doors and windows, enclosing porches for the winter, etc., for 10 days and if you do not find it lets in a more healthful and agreeable light and warmth and gives better results than glass or any other glass substitute just return and we will refund your money. Common sense instructions "Feeding for Eggs" with every order. Catalog on request.

# TURNER BROS.

Dept. 999—BLADEN, Nebraska

Established 1916