

# Lewiston Orchards Life

AN EXPONENT OF PROGRESSIVE HORTICULTURE AND THE SUCCESSFUL RURAL COMMUNITY

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## The Rome Beauty---a Popular Commercial Apple

By Professor W. S. Thornber, Director Lewiston-Clarkston School of Horticulture, Lewiston, Idaho.

VERY few people realize how rapidly the Rome Beauty is becoming one of the most popular varieties of apples grown. One of the strong factors of this variety is that it is not only popular with consumers, but is extremely popular with the growers. It comes into bearing early, bears annually, requires very little thinning and is not particularly subject to either blight or loss from scab.

As a consumer's apple it can be used very early for cooking purposes is of a good, convenient size, keeps well with a minimum amount of loss from bruise, decay, is attractive in color and shape and while ranked moderately low as a dessert apple, it is extremely popular as a large-sized baking apple.

As an exhibit variety it is shown from more districts and in larger numbers than any other variety of apples grown in the Pacific Northwest. It grows to perfection in high as well as low altitudes, adapts itself to irrigation and produces perfect fruits in the drier regions, in fact, it has become recognized as the most cosmopolitan apple grown.

The Rome Beauty was originated by H. N. Gillett of Lawrence County, Ohio, and was first recognized by the Ohio State Horticultural Society in 1848, as a worthy, new variety. Like many other varieties, it requires almost half a century for it to become recognized generally, however, since becoming known it has gained rapidly in popularity.

There are several known variations of this variety, however, none of them thus far have been tested thoroughly enough to warrant general recognition.

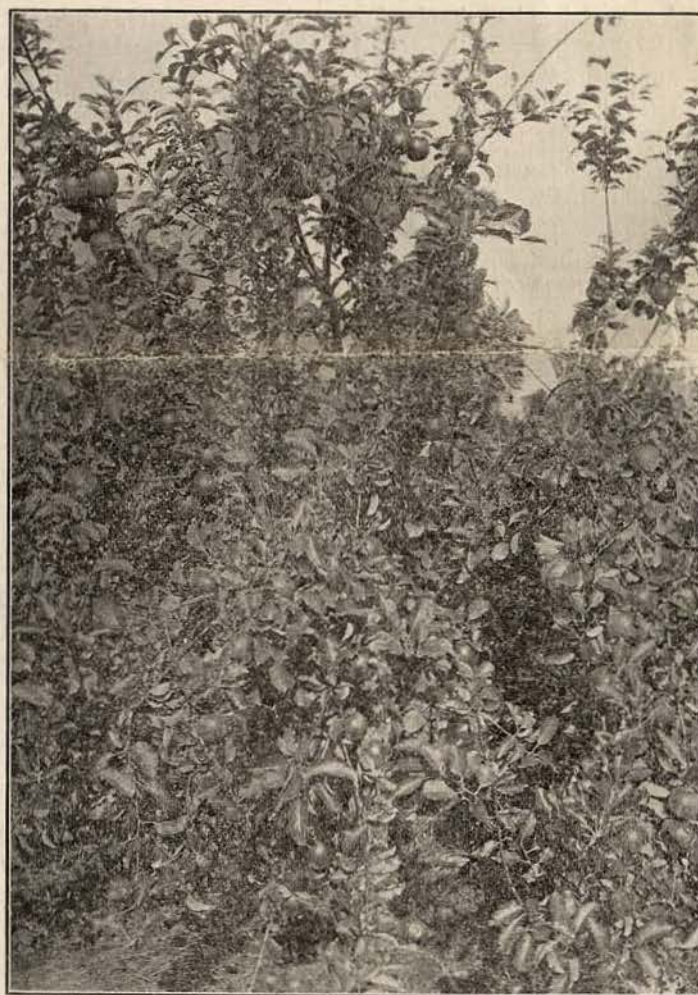
### LIME SULPHUR SPRAY.

Orchardists are finding occasional evidence of the San Jose scale. This is neither alarming nor surprising to those familiar with the habits of the scale here in the northwest, and especially is this true when one realizes that the scale is very common on the native willow, alder, thorn and cottonwoods along the streams and frequently found on the buckbrush, snowberry and service berries

growing along the roadsides.

The question of what to spray with is a common one at this season of the year. There are two common sprays used for the eradication of the scale—the crude oil and lime sulphur. The crude oil is very effective and in cases of bad infections it can profitably be used to cleanse orchards, but should not be used

portunity to secure a good grade of freshly prepared lime-sulphur at a reasonable cost, the Lewiston Land & Water Company will operate their plant this year. It is not their purpose to enter the commercial field beyond providing a good grade of material at a reasonable cost for every owner and operator in the Orchards. Arrangements have been



ROME BEAUTY TREE, IN ORCHARD OF H. H. S. ROWELL, LEWISTON ORCHARDS

THE Rome Beauty tree, shown above, is one of a row of twenty trees, in the sixth year of growth, the row producing last season 150 lug boxes of apples, an average of 7 1-2 per tree, or about 125 boxes of packed apples, netting the grower about \$100. The fruit was highly colored, partly due to a strip of alfalfa on one side of the row.

year after year. For all general purposes, the lime-sulphur is preferable and can be used without danger of bark injury.

In order that all residents of the Lewiston Orchards district may have an op-

portunity to secure a good grade of freshly prepared lime-sulphur at a reasonable cost, the Lewiston Land & Water Company will operate their plant this year. It is not their purpose to enter the commercial field beyond providing a good grade of material at a reasonable cost for every owner and operator in the Orchards. Arrangements have been



## Community Life in Lewiston Orchards

### HOSPITAL AUXILIARY.

The Lewiston Orchards auxiliary to the advisory board of St. Joseph's hospital held its annual meeting, Jan. 15, at the home of the retiring president, Mrs. L. A. Blackman.

Officers for the ensuing year were elected as follows: President, Mrs. L. C. Gieseke; vice-president, Mrs. S. W. Whitford; secretary, Mrs. H. H. S. Rowell; treasurer, Mrs. G. E. Ames. The retiring president, Mrs. Blackman, expressed her appreciation for the faithful service and loyal support of members during the two years that she had presided since the auxiliary was organized. Sister Borgia, matron of the hospital, had sent word expressing her thanks for the good work that the auxiliary had done. The number of articles that it contributed to the hospital bazar in December was 229.

For the present year articles will be made and contributions of canned fruit will be made, both for sale at the hospital bazaar and for use at the hospital.

The new president, Mrs. Gieseke, named chairman of committees as follows: Membership, Mrs. G. G. Ames; novelty, Mrs. P. W. Clark; apron, Mrs. L. A. Blackman; corset cover, Mrs. G. G. Ames. Others are yet to be appointed.

The last meeting of the month was held at the home of Mrs. G. G. Ames, who entertained the members in her usual hospitable manner. Refreshments of quite elaborate kind were served. Those present were Mrs. L. C. Gieseke, Mrs. G. G. Ames, Mrs. Nancy Willis, Mrs. J. F. Morse, Mrs. Hardwick, Mrs. Geo. C. Duffie, Mrs. L. A. Blackman, Miss Elizabeth Stone, Miss Lulu Wallace, Miss Irma Jackson, Miss Hattie Whitford, Mrs. Walter Moffitt, Mrs. Walter Eddy, Mrs. C. S. Jacobs, Mrs. Harriet Finney, Mrs. F. B. Gano, Mrs. Mae Troeh, Mrs. L. C. Jackson. Mrs. Hardwick, Mrs. Finney, Mrs. Duffie and Mrs. Jackson were present as guests and Mrs. Jackson and Mrs. Finney became members of the auxiliary.

The next meeting will be held Feb. 26, and in future meetings will be held monthly throughout the year, instead of semi-monthly for a portion of the year.

### A HOME MASQUERADE.

A very pleasant masquerade party was given, Jan. 24, at the home of Professor

and Mrs. Chas. A. Cole, by Mrs. Cole and Mrs. T. Keedy. Nearly all guests were in fancy dress, the costumes shown being as follows: Mrs. Walter Eddy, court lady; Walter Eddy, knight; Mrs. F. B. Gano, colonial maid; F. B. Gano, "Cream of Wheat;" Mrs. J. F. Morse, colonial old maid; J. F. Morse, Dutchman; Mrs. A. H. Duffie, fancy dress; A. H. Duffie, highwayman; Mrs. J. Kouwenhoven, fancy dress; J. Kouwenhoven, diver; Mrs. R. W. Cram, little girl; Dr. R. W. Cram, swell coon; Mrs. Chas. A. Cole, fancy dress, crepe paper; Chas. A. Cole, colored footman; Mrs. Tracy Keedy, fancy dress; Mrs. G. E. Ames, Dutch girl; G. E. Ames, plantation coon; Mrs. L. A. Blackman, Swiss girl; L. A. Blackman, aristocratic German emigrant. The prize for the best costume was awarded to Mr. Eddy. Phonographic music was given and refreshments were served.

### CHURCH ANNUAL MEETING.

At the annual meeting, Feb. 5, of the Lewiston Orchards church society, A. J. Smith was elected deacon; C. S. Jacobs, trustee; Walter Eddy, treasurer; Allen Eddy, envelope secretary; Mr. and Mrs. C. S. Jacobs and Mrs. Walter Eddy, chair committee.

The board of trustees now consists of J. E. Butler, Walter Eddy, W. H. Bankson, C. S. Jacobs and Fred H. Sheets, Mrs. W. H. Bankson is clerk of the church society. The society has 24 resident members, including five who joined at the communion services, Feb. 1. The Sunday school, with C. S. Jacobs as superintendent and F. D. Webb as assistant superintendent has an enrollment of more than 100 members.

### PERSONAL POINTS

Mrs. F. B. Laing recently had a visit for three weeks from her brother, A. B. Lemons, of Richland, Wash. Mrs. Laing had previously returned from Coleman, Wash., where her sister, Mrs. Ricketts, died December 31. A portion of the holiday season was spent by Mr. and Mrs. Laing in visiting their son, daughter and nieces and other relatives at Cambridge, Idaho, where at Christmas dinner there was a family reunion of 21 persons.

Mrs. E. C. Scott, of Harrington, Wn., spent a week here visiting her parents, Mr. and Mrs. A. J. Smith, on Warner

avenue, and her sister, Mrs. Wm. Thomson, of Lewiston, while returning from a visit during the holidays with her sons who are attending college at McMinnville, Oregon.

Messrs. Geo. H. Banaka and Frank D. Webb, formerly of the Lewiston Security Company, have formed the firm of Banaka & Webb, for a general insurance and real estate business, with offices in the new Davies building, Lewiston.

Hon. and Mrs. J. L. Goodnight left Jan. 13, for Oakland, Calif., where they will visit their son, also visiting Mr. Goodnight's mother at Vancouver, Wash. They expect to be absent for about six weeks.

R. G. Bailey, publisher of Western Poultry, returned recently from a visit to Montana, in the interest of his publication. He was accompanied by Mrs. Bailey.

F. W. Baker and family have recently arrived here from Indiana, to make their permanent residence on their orchard here.

D. W. Briggs, of Portland, father of Lynn H. Briggs, of the Orchards, was a visitor here for a day, Feb. 3.

Mrs. H. C. Jackson left Jan. 9, for Los Gatos, Cal., where she will visit her father who is 87 years old.

J. W. Haben and family, who recently went to Chicago, are now living at Aurora, Ill.

Mrs. J. L. Klapp has recently returned from a visit with friends at Genesee, Idaho.

### HOME HAPPENINGS.

Clyde W. Tyler recently sold for \$5,000, his five-acre orchard on Burrell avenue, that he purchased three years ago for \$1,500. He has since bought three residence lots on Prospect avenue, in Lewiston, and will build three bungalows, occupying one for his own residence.

"Foundations" was the subject of an address, Jan. 16, before the pupils of Lewiston Orchards school, by Frank D. Webb, who told of the deep foundations laid for the great buildings in the large cities and of the solid foundations that should be laid for human character.

Professor Chas. A. Cole and family will this month occupy the bungalow of David A. Smith, on Fifth street, being succeeded in the Long house by A. Boyer and family.



## Lewiston Orchards Life

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For the information and aid of orchard owners here and elsewhere.

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### GOOD WORK COUNTS

While good work is essential to success in any occupation, it is especially so in orcharding, which has become a skilled, scientific industry. Commercial orcharding, at the present time, demands the application of systematic attention to details such as would be required in any line of business pursuit.

In modern orcharding, theory and practice go hand in hand, and the most successful horticulturists are found among those who combine technical training with practical experience. They may not be graduates or students of an agricultural college, but they are men who have themselves informed, through horticultural publications or otherwise, as to the latest horticultural discoveries and have been ready to make practical application of such information.

It is now apparent more than ever before, in the orchard industry, that good work counts. The big returns are found in those orchards where thorough methods have prevailed. It is an interesting fact that the successful orchardist seldom comes from the farm, but most often from the city. The business or professional man is ready to apply business principles, and is also ready to learn, having nothing to unlearn in horticulture. He who comes to the work of orcharding with an unprejudiced mind, open to information, and with a capacity and willingness for persistent, industrious application, will find abundant returns as a reward for his efforts.

### WESTERN APPLES IN PARAGUAY

E. H. Smith, of Duluth, an orchard owner here, calls attention to a significant item in the Daily Market Record, of Minneapolis, under date of Jan. 6, which indicates a promising market for American apples in South American countries, a line of trade that will be especially en-

couraged by the opening of the Panama canal. The item is as follows:

"Consul Cornelius Ferris, jr., Asuncion—One importer of produce and fruit in Asuncion receives weekly from Buenos Ayres 30 boxes of 10 dozen California apples each. They come in three shipments of 10 boxes each and are disposed of as fast as they are received. There are two grades selling, respectively, at 18 and 24 pesos a dozen. (At the present rate of exchange 1 peso is equivalent to about 6½ cents in American money). The importer referred to states that he also sends a small quantity of California apples weekly to Columbia, Brazil, a journey of 800 miles by river north of Asuncion, requiring four to five days to make.

"It is evident that there is a ready market for American apples in Paraguay, which will be increased as transportation facilities improve. Through train service from Buenos Ayres to Asuncion is now in operation, the run requiring 49½ hours. While there is but one train a week, the service is sure to be augmented as traffic increases. The time by steamer from Buenos Ayres is four to five days."

As the prices quoted range from \$11.70 to \$16.50 a box, the desirability of a market in that direction is easily apparent. Paraguay is only one of many South American countries of similarly attractive market possibilities for western apples.

One of the most delightful social affairs of the season was the dancing party given on the evening of Feb. 7 by Mr. and Mrs. A. H. Duffie, who are now occupying the C. F. Hall residence. The fine dancing floor was used to good advantage, and refreshments were very prettily served. Those present were: Mr. and Mrs. F. B. Gano, Mr. and Mrs. R. S. Erb, Dr. and Mrs. R. W. Cram, Mr. and Mrs. G. E. Ames, Mr. and Mrs. J. F. Morse, Professor and Mrs. Chas. A. Cole, Mr. and Mrs. C. S. Jacobs, Mr. and Mrs. T. Keedy, Mr. and Mrs. Frank Finney, Mr. and Mrs. L. A. Blackman, Mrs. Hardwick, Mrs. Harriet Finney, Miss Ruth Finney, David A. Smith, Mr. and Mrs. Geo. C. Duffie, Mr. and Mrs. A. H. Duffie.

A pleasant afternoon reception for Mrs. Geo. W. Hall was given Jan. 28, by Mrs. R. W. Cram, at her home on Preston avenue. Mr. and Mrs. Hall were formerly residents of the Orchards.

The occasion was intended to afford Mrs. Hall an opportunity of meeting her friends during a short stay here, while Mr. Hall is absent on a business trip to New York. She left several days later for their home at Seattle after an absence of several weeks. The invited guests were Mesdames C. F. Hall, P. W. Clark, L. A. Blackman, Walter Eddy, F. B. Gano, Geo. E. Ames and Tracy Keedy. Light refreshments were served.

Lloyd L. Detrick has been appointed, by the county board of commissioners, as supervisor of road district No. 10, which comprises Lewiston Orchards, succeeding D. H. Sipes, resigned, who has faithfully served the district for several years past. Mr. Detrick was endorsed and recommended for the position by Lewiston Orchards Assembly, and a petition asking for his appointment was signed by 79 resident property owners. Mr. Detrick is one of the pioneer residents of Lewiston Orchards.

The Lewiston Orchards Ladies' Aid Society will hold its next all-day meeting with noon lunch, Feb. 12, at the church. The refreshment committee for the day will consist of Mrs. G. G. Ames, Mrs. L. C. Gieseke, Mrs. Chas. A. Cole, Mrs. J. Kouwenhoven, Mrs. R. Pickering, Mrs. Emily Kennedy, Mrs. W. H. Bankson and Mrs. E. Watkins.

The regular meeting this month of Lewiston Orchards Assembly will be held February 16, postponed from Feb. 9th. The meeting will be addressed by Attorney Chas. L. McDonald, of Lewiston, on the subject of the proposed highway district for Lewiston Orchards, an election for which will be held two days later.

A beautiful pulpit chair has been presented to Lewiston Orchards church by the Sacajawea club, formerly the Sunshine Circle of girls, comprising the Sunday school class taught by Mrs. A. J. Smith.

Communication service and reception of members was held at Lewiston Orchards church, Feb. 1. The subject of discourse by the pastor, Rev. F. O. Wyatt, was "God's Gift."

A little daughter, Marguerite Pearl Detrick, was welcomed in the family of Mr. and Mrs. L. L. Detrick, Jan. 19.

Mr. and Mrs. A. H. Duffie expect to move next month into their new home on Grelle avenue and Thain Road.

A. J. Smith has recently built a barn, the upright portion of which is 14x20 feet. It has 12-foot posts.



## Annual Meeting of Lewiston Orchards Association

THE annual meeting of Lewiston Orchards Association was held at the packing house on the afternoon of Jan. 13, at two o'clock, with about 35 members present. The annual statement was presented as follows:

Cash receipts: Cash on hand, \$160.66; gross sales apples, \$10,403.90; gross sales crab apples, \$33.01; gross sales grapes, \$50.70; gross sales peaches, \$8,362.49; gross sales plums, \$35.38; gross sales nectarines, \$11.95; gross sales pears, \$221.73; total gross sales of all fruits, \$19,475.66; assessments collected, \$950.00; notes collected on new stock, \$250.03; notes collected on old stock, \$897.55; accounts collected, \$883.81; new stock sold, \$703.00; alfalfa sold, \$1.00; collected from N. W. Fruit Exchange, \$426.51; collected from Hill Miller & Co., \$22.50; total, \$23,770.72.

Cash disbursements (general expense): Salary secretary, eight months, to Sept. 1, \$219.00; salary packing house foreman, Aug. 1 to Nov. 12, \$510.00; salary bookkeeper, 1½ months, \$107.50; insurance \$89.37; telephone and

telegrams, \$6.93; books, stationery and printing, \$131.35; fuel, \$17.80; gasoline, \$15.07; postage, \$23.35; water, \$4.88; state corporation tax, \$15.00; state and county tax, \$43.15; cost issuing trust certificates, \$10.50; miscellaneous, \$29.40; payroll, Aug. 1 to Dec. 1, \$2,249.14; boxes, paper, nails, labels, baskets, etc., \$4,325.49; equipment and building improvement, \$910.37; cartage, \$989.51; paid growers for peaches, etc., \$3,753.59; paid growers for apples, etc., \$7,450.75; note to Lewiston Box Co., \$1,000.00; paid on note to Lewiston National Bank, \$1,000.00; interest on notes, \$361.77; membership in Rural Telephone Co., \$25.00; cash on hand, \$481.80; total, \$23,777.72.

Assets: Packing house \$2,282.63; equipment (inventory) \$978.74; boxes, baskets, nails, labels, paper, etc., (inventory) \$844.85; membership in Rural telephone Co., \$25.00; bills receivable, \$3,033.55; accounts receivable, \$145.72; profit and loss, \$757.72; cash on hand, \$481.80; total, \$8,550.01.

Profit and loss; balance from 1912, \$3,907.45; adjustments, \$16.64; interest, \$361.77; total, \$4,285.86. Collected from N. W. Fruit Exchange \$426.51;

collected from Hill Miller Co., \$22.50; alfalfa sold, \$1.00; profit from non-members, \$168.13; assessments collected, \$2,910.00; total, \$3,528.14; balance, 757.72.

Stock account: 99 shareholders, 668 acres, at \$5.00, \$3,340.00; 21 shareholders, 206 acres, at \$10.00, \$2,060.00; total, \$5,400.00.

Assessments, 668 acres, at \$5.00, \$3,340.00 collected, \$2,910.00; balance due, \$430.00.

The gross sales of fruits were also given in itemized account, but a summary of these has previously been given in these columns.

In the election that followed, Frank B. Gano was elected to fill out the unexpired term of J. B. White, resigned, who was elected one year previously for a three-year term; and C. L. McDonald, E. C. Smith and Arthur F. Lewis were re-elected for three years. The board of directors now consists of P. W. Clark, F. B. Gano, T. Keedy, H. H. S. Rowell, C. L. McDonald and Arthur F. Lewis. The new board afterwards organized by the election of P. W. Clark, president; T. Keedy, vice president; E. C. Smith, secretary and treasurer.

### HIGHWAY DISTRICT PROPOSED

A special election has been called for Feb. 18, to decide as to the proposed establishment of a highway district in Lewiston Orchards. The judges of election named are: P. H. Mullarky, C. R. Burns and W. H. Bankson.

The action of the county board in calling the election is in accordance with a petition presented by a committee from Lewiston Orchards Assembly, consisting of Messrs. Tracy Keedy, J. L. Goodnight, H. H. S. Rowell, F. B. Gano and H. C. Jackson. The petition has been signed by much more than the required number of resident title-holders and if a majority of the vote cast at the election is favorable, the district will be established. The governor of the state will then appoint three highway commissioners, residents of the district, who shall serve for three years from next January, and thereafter they shall be elected by the people of the district.

The total area of the proposed district embraces 11,500 acres and its total assessed valuation is \$1,911,756. Under the proposed arrangement, 95 per cent. of the general county road tax originat-

ing in the district can be used in the district. The district can also be bonded for road improvements. It is expected that the ultimate result will be the building of permanent highways throughout Lewiston Orchards.

### HOME HAPPENINGS.

Choir practice is regularly held at Lewiston Orchards church on each Wednesday evening, at seven o'clock. The work is in charge of the choir committee, consisting of Mr. and Mrs. C. S. Jacobs, and Mrs. Walter Eddy. Assistance is given by the pastor, Rev. F. O. Wyatt. Some good male voices have been discovered and in the near future some sacred selections can be given by male voices exclusively. All who can sing, and especially all who can read music, are urgently invited to attend the rehearsals promptly at seven o'clock on Wednesday evening.

Mrs. A. J. Smith entertained, on the evening of Jan. 23, in a very delightful manner, the members of the Sacajawea club and the Rangers class of the Lewiston Orchards Sunday school, at her home on Warner avenue. The evening

was spent in games, and missing packages in parcel post were found. Each guest was presented with a "Life Book," and dainty refreshments were served.

From Lewiston Orchards, the following have been drawn for jury duty at the April term of the district court in Nez Perce County, at Lewiston: T. Keedy, D. W. Clark, O. C. Bailey, J. B. White, Walter Eddy, F. H. Sheets.

A delayed snowstorm came Jan. 23, when about five inches of the "beautiful" followed a rain and clung to the trees, giving the orchards a wonderfully ornamental appearance for a few hours.

A third family to be visited by scarlet fever was that of H. H. S. Rowell, whose son Ralph was taken with a mild form of the disease, Jan. 17, having since recovered.

H. H. S. Rowell has been appointed justice of the peace for Lewiston Orchards precinct. Under the new law, he will act as registrar of voters for the precinct.

N. E. Ware and family, from Clarkston, have recently moved into the orchard home lately sold by Nate Wilson on Preston avenue.



## Orchardists Hear Science of Housekeeping Discussed by an Expert

**A**N address of most interesting, instructive and practical character was that given Jan. 12, on "The Bacteriology of Housekeeping," before Lewiston Orchards Assembly, by Miss Margaret Griffith Tyler, of the department of bacteriology and applied chemistry of the Lewiston State Normal school. Miss Tyler made clear the practical value of bacteriological study in the practical details of everyday home work. She first stated that it was easier to talk to people in rural communities, along such lines, than to those in cities, because here the home and business are one and the same thing, while in the cities they are distinctly separated.

### Housekeeping a Business.

Housekeeping, declared Miss Tyler, is a business in which men, as well as women, engage. Housekeeping is not exclusively a woman's topic. Agriculture and housekeeping are two primary lines of business in which men and women have been engaged ever since they emerged from barbarism, but it is these two biggest professions which have been most neglected. The man or woman who succeeds in homemaking must be a learned person.

### Useful Bacteria.

Coming to the subject of bacteriology, the speaker showed that the greater part of bacteria are helpful to us. If bacteria were to stop their work for two weeks, in field or home we would go out of business. Bacteria are affected by many things: by moisture, by the strength of salt solution in which they may be placed, by light and by the condition of the air. The changes they bring about are very many. One thing that we use bacteria for on the farm is in making a hot bed. Some kinds produce light. They produce changes in the consistency of material, as in milk. They produce changes in the contents

of the soil, as in nitrates. They have to do with the cycle of carbon. In the household we deal with those that have to do with food preservation. Many fruits are preserved by drying, as fruit, flour, etc., for dampness in such materials are kept by means of a high temperature, as in canning food. Steam cookers are used for canning, thus killing the spores of the bacteria. The speaker recommended a community steam cooker, as a practicable proposition here. Repeated boilings, for sterilization, as commonly practiced, was not deemed advisable.

### Dangerous Varieties

As the greatest cold does not kill bacteria, ptomaine poisoning may come from ice cream that has been frozen for several days. Cold merely inhibits the bacteria, and does not kill them.

Some things are preserved by keeping out the air. Eggs are preserved by closing the air pores of the egg shell. We also preserve foods by acids. Lemons in gelatine kill the bacteria. Lactic acid keeps milk sour. Vinegar keeps pickles. Bacteria are involved in alcoholic fermentation. Yeast changes sugar to alcohol and gas, carbon dioxide. Yeast plants are used in making bread and in making intoxicating liquor.

### Chemistry of Bread Making.

The process of breadmaking was explained in detail. In baking, we kill the bacteria of the yeast, dry out the alcohol and bake the bubbles solid so that they will not break out again. In making beer, we add hops, which is an antiseptic. Cider turns to alcohol, and then to vinegar or acetic acid by an entirely different kind of bacteria. Sauer kraut is preserved by lactic acid, and so is ensilage. Salt rising is caused by bacteria that grow where corn grows. Lactic acid fermentation is used in making butter. There are three classes

of organisms that sour milk. Unclean cows make the wrong kind. If milk is soured too hot or too cold the wrong kind of organism is formed. In making butter, artificial starters are used. It is heated to a high temperature and then cooled down and inoculated with the kind of bacteria that will give the right taste to the butter. The taste of the butter depends absolutely upon the kind of bacteria present. Cheesemaking depends also on the kind of bacteria used. Bacteria are used in linen-making, in the breaking up of manures and in the preservation of health. Bacteria are no respecters of persons.

### Universal Motherhood Coming.

Now that the work of women has been taken away from the home, universal motherhood is coming. We will not speak, in the future of the education and training of "my children," or of "our children" but of "all children." Teachers in the schools are doing their part for the children as truly as are parents at home. Housekeeping is becoming an interesting thing. In housekeeping there is a tendency to be monotonous but a woman becomes a true scientist when she studies the best method of doing things.

### Housekeeping a Profession.

The first big reason for application of science to housekeeping is to make it a profession and this will make us all more unified. We cannot expect to go forward unless we all go forward. The time is coming when we will have enough of a civic conscience to keep our own child in to protect our neighbor's child.

Miss Tyler had a very appreciative and attentive audience. It is hoped, at some future time to have her speak before the Assembly on "The Bacteriology of Horticulture."

### A READING CIRCLE.

At the last regular meeting of Lewiston Orchards Assembly, Jan. 12, a report was received from the committee on reading circle, consisting of Jos. C. Kennedy, Dr. R. W. Cram, D. H. Guiland, C. S. Jacobs, Mrs. F. B. Gano, Miss Elizabeth Stone and Miss Lulu Wallace.

The committee recommended that the proposed institution be known as "The Orchards Library and Reading Circle." It is to have a three-fold purpose—to keep in touch with the best current literature; study of nature, especially birds, trees and flowers; study of science and philosophy. The equipment needed will include a bookcase to be provided by the assembly, and books of

which all members shall be expected to contribute one or more. All books shall be in the care of the assembly librarian, who shall be empowered to make all rules governing the care and distribution of books.

The report of the committee was approved by the Assembly and the committee was authorized to further develop the plan proposed.



## The Consumer's Apple---Its Varieties, Seasons, General and Special Uses

By Professor W. S. Thornber, Director Lewiston-Clarkston School of Horticulture, Lewiston, Idaho.

**D**URING the past ten or twelve years the growers' problems in apple culture have been emphasized far in excess of all other problems together, and it is not surprising today to have the consumers come back at the growers with the request, "When are your varieties ready to use and to what use are they best adapted?"

The consumers are beginning to realize that an apple requires more than color and size to make it an excellent dessert or even good cooking apple, and while a grade commonly known as cooking apples is frequently offered for sale, unless a consumer is sufficiently familiar with varieties so as to be able to separate them into even cookers, it is unsafe to buy mixed varieties, even for cooking purposes.

Apples are very much like potatoes, some varieties are better adapted for one kind of cooking than for another and while it is possible to use certain varieties together and improve the flavor of the sauce, it is usually unsafe.

Very few varieties are perfectly adapted to all purposes at the same time, and most varieties have a very short dessert season. It is very unfortunate that so many apples are used out of their proper season. To get the best there is in eating apples, they must be in their prime of condition and not over-ripe or too hard to enjoy.

The following table of varieties, month to be used and best uses, will help those not familiar with flavors and conditions to more intelligently select their apples for home use:

VARIETY	SEASON	CONDITION	DESSERT	SAUCE	BAKING
Yellow Transparent	Aug. to Sep.	Unripe	Good	Excellent	Poor
Yellow Transparent	Aug. to Sep.	Ripe	Excellent	Good	Poor
Duchess	Aug. to Oct.	Unripe	Poor	Excellent	Poor
Duchess	Aug. to Oct.	Ripe	Excellent	Good	Good
McIntosh Red	Sept. to Oct.	Unripe	Good	Excellent	Good
McIntosh Red	Sept. to Oct.	Ripe	Excellent	Good	Poor
Wealthy	Sept. to Oct.	Unripe	Poor	Excellent	Excellent
Wealthy	Sept. to Oct.	Ripe	Excellent	Excellent	Good
Winter Banana	Oct. to Dec.	Unripe	Good	Poor	Poor
Winter Banana	Oct. to Dec.	Ripe	Excellent	Poor	Poor
Delicious	Oct. to Nov.	Unripe	Good	Good	Poor
Delicious	Oct. to Nov.	Ripe	Excellent	Poor	Poor
Jonathan	Nov. to Dec.	Unripe	Good	Excellent	Good
Jonathan	Nov. to Dec.	Ripe	Excellent	Good	Poor
Grimes Golden	Nov. to Feb.	Unripe	Poor	Excellent	Good
Grimes Golden	Nov. to Feb.	Ripe	Excellent	Good	Poor
Staymen	Dec. to Feb.	Unripe	Poor	Excellent	Good
Staymen	Dec. to Feb.	Ripe	Excellent	Good	Poor
Spitzenburg	Dec. to Jan.	Unripe	Good	Excellent	Excellent
Spitzenburg	Dec. to Jan.	Ripe	Excellent	Excellent	Good
W. Winter Pearmain	Dec. to Mar.	Unripe	Poor	Good	Good
W. Winter Pearmain	Dec. to Mar.	Ripe	Excellent	Poor	Poor
Rome Beauty	Dec. to Apr.	Unripe	Poor	Excellent	Excellent
Rome Beauty	Dec. to Apr.	Ripe	Good	Good	Good
Yellow Newtown	Feb. to May	Unripe	Good	Excellent	Excellent
Yellow Newtown	Feb. to May	Ripe	Excellent	Excellent	Good
Winesap (common)	Feb. to Apr.	Unripe	Good	Excellent	Good
Winesap (common)	Feb. to Apr.	Ripe	Excellent	Good	Good
Wagener	Feb. to May	Unripe	Poor	Excellent	Excellent
Wagener	Feb. to May	Ripe	Good	Good	Poor
Arkansas	Feb. to May	Unripe	Poor	Excellent	Excellent
Arkansas	Feb. to May	Ripe	Poor	Poor	Good
Ben Davis	Feb. to May	Unripe	Poor	Good	Good
Ben Davis	Feb. to May	Ripe	Poor	Poor	Poor

Apples for All Seasons and Purposes.

There is no definite season for the same variety from all districts. The altitude, temperature and soil upon which a variety grows influences the season of maturing very materially. For example, a Jonathan grown in a low, warm valley on sandy soil will be passed its prime before December first, while one from a higher altitude on clay loam may be at its best for the holiday trade. Another factor rarely taken into consideration is that long before an apple is ready for use as a dessert fruit, it may be at its best for cooking and baking purposes, and after it is ripe enough for dessert uses it may be too ripe for the best cooking uses.

Occasionally consumers say to me, "We can no longer get the nice, rich, juicy apples from our grocers we used to." The difficulty is that too many groccerymen fail to recognize the fact that practically all varieties have a best season and they overstock with certain varieties or are unable to estimate their needs for certain periods of the season, and one of two things happen, either the variety passes out of season on their hands or takes up unfavorable flavors from poor storage. Apples are very much like butter in this respect and should never be stored with vegetables, groceries or for that matter in a poorly ventilated store room.

If a consumer is limited to one or two varieties of apples for all purposes he will be best satisfied with such varieties as Jonathan for early winter use, Rome Beauty for mid-winter use and Yellow Newtown for later winter and early spring. However, it would be more satisfactory to put in a few of the extra quality dessert apples like the McIntosh Red, Winter Banana, Delicious, Spitzenburg, White Winter Pearmain and Grimes Golden for special table purposes.

### Special Uses and Characters.

It is not generally known the large sized Rome Beauty apple makes excellent bakers and now are becoming extensively used by the best cafes and hotels for that purpose. The Arkansas Black, a beautiful apple of extremely poor quality for dessert purposes, is an excellent



baker until it becomes over ripe late in the season.

Some house wives are very partial to a rich, yellow sauce. This is possible only with such varieties as the Spitzenburg while others like a brisk acid sauce, which can only be secured from the un-ripe Northern Spy or by adding lemon to the sauce, which usually improves it under most conditions, and especially so when made from over ripe apples.

The size of the apple although well grown, influences the quality with such varieties as Delicious, Rome Beauty, Winesap, Arkansas and Ben Davis. Small sized Delicious, Arkansas and Ben Davis are as a rule inferior in quality while the large sized Rome Beauty is superior particularly for baking purposes. There is no comparison between the medium to large sized Delicious and small apples of the same variety. The large ones have a rich, aromatic flavor while the small ones of this variety are poor. With few exceptions the medium sized apple is superior in every

way. The Winesap and Jonathan are frequently too small to be considered first class baking apples. The flavor is good but loses much in baking.

#### PROF. SHAW ON SWINE RATIONS.

In a recent letter from Professor Thos. Shaw, one of the greatest livestock authorities in the country, he gives some valuable hints on cheap rations for growing swine. Professor Shaw has published a book on "Dry Land Farming," and it may be obtained from him, at \$2.00 a copy, at 2153 Knapp St., St. Paul, Minn. Following are extracts from his letter:

"With reference to the growing of swine on a cheap ration, I may say that my plan is to feed the sows on good alfalfa hay in winter. This should be cut at a stage of growth not later than the first blooms and well cured. In addition they should be given a mangel or two a day. In a climate as mild as yours

it is immaterial if they are given any grain or meal until near the farrowing period. While suckling their young a part of the food may be alfalfa but the bulk of it should be meal soaked and fed as slop. The young pigs while nursing should be given shorts fed as their slop until weaned. This is given apart from the dam. When weaned they may be chiefly grown on alfalfa, either grazed or fed as hay, but if fed as green hay it should always be quite succulent. They should be given, at the same time, some grain, as wheat, corn, barley or rye. About a pound a day or a little more than that should suffice. As you can grow excellent peas on your irrigated land, I would suggest finishing on peas. These may be harvested by the swine in your dry climate, or they may be harvested by the aid of a pea harvester, stacked and thrown to the swine from the stack, or if it is desired to save the straw, they may be threshed and the peas fed direct. This would eliminate corn and rape. There is no pasture superior to alfalfa."

### Present Form of Non-Resident's Care Contract

By Professor W. S. Thornber, Horticultural Department, Lewiston, Idaho.

THE many inquiries being received recently from non-resident owners relative to care contracts makes it seem advisable at this time to print for the benefit of all the general care contract being used this year by the Department of Horticulture, where supervision is desired.

The following contract not only provides for the care of the growing tree but makes it possible, with better care, for the caretaker to receive more for his labor than it is advisable for the orchard owner to ordinarily contract to pay and at the same time, protects and improves the soil and provides for the thinning, harvesting and marketing of the crop at a reasonable cost to the owner and a fair margin to the caretaker.

#### Contract for Care.

THIS AGREEMENT, Made this... day of ....., 1914, between ...., of Lewiston, Idaho, first party, and ....., of ....., second party, WITNESSETH:

1. THAT WHEREAS, The second party is the owner of real estate situate in Nez Perce County, State of Idaho, and described as follows: Lot ....., block ....., in Lewiston Orchards Tract No. ...., and

2. WHEREAS, The second party desires the first party to cultivate and care for the same for a period of one year,

3. NOW THEREFORE, In consideration of the sum of ..... Dollars, payable May 15th, 1914, and ..... Dollars, payable August 15th, 1914, first party agrees to do all things necessary for the care of above described tract, including plowing, cultivating, pruning, irrigating, and not to exceed three sprayings.

As further consideration, the party of the first crop is granted the privilege of intercropping the orchard with either a cultivated crop, or one producing nitrogen, and shall be entitled to any proceeds therefrom, any such intercropping to be subject to the following conditions. No crop shall be grown closer than three feet from the trees, this three foot space to be either plowed shallow or cultivated and kept clean throughout the season, the balance to be plowed not less than seven inches deep before seeding. It is further understood that no tall growing corn shall be used, and in case peas and grain are used, the peas must represent at least 50 per cent of the seed, and should the

inter-crop at any time endanger the trees, it must be plowed under.

It is further agreed that the said first party shall thin, harvest, and deliver the fruit for market at actual cost, plus 10 per cent for supervision, the entire fruit crop to be the property of the owner of the Orchard.

It is understood between the parties heretofore that all services of first party as above described shall be under the direct supervision of the Horticultural Department of the LEWISTON LAND & WATER COMPANY, LIMITED, and that no monies for the above described services shall be paid by second party to first party until second party has been advised by said Horticultural Department of the LEWISTON LAND & WATER COMPANY, LIMITED, that said services have been performed in accordance with the provisions of this contract.

IN WITNESS WHEREOF, the said first party and said second party have hereunto set their hands and seals in duplicate the day and year first above written.

.....  
.....  
.....



## Preparation of the Early Spring Vegetable Garden

By Professor Chas. A. Cole, Horticulturist.

**T**HE first important step in growing a vegetable garden is to size up your plot of ground, then make out a list of vegetables you want to grow and determine how much space is to be allowed to each kind.

The hot bed was discussed in the last issue and will not be mentioned here. The selection of the garden plot should be given careful attention. For an early garden a soil that will warm up quickly is to be desired. Whether or not the soil contains a large quantity of plant food is not of very great importance, just so that the soil is of a good friable texture is all that is necessary. The fertility can be added by putting on a good coating of well rotted stable manure and then plowing or spading up to a depth of twelve inches. While the soil is being worked down into condition for planting a liberal coating of hen manure should be worked into the top six inches.

In order to get the most satisfaction out of the garden in this section, the lettuce and spinach should have been planted in the fall and protected during the winter with straw. The time for spring planting depends on the season, however, the seeds should be planted just as soon as the weather will permit. Lettuce, onions, peas and spinach have been planted here as early as February, how-

ever, this is the exception. These plants will stand a pretty low temperature and you should not wait until danger of frost is over before planting.

The following is a list of vegetables that have given good success in this section:

### LETTUCE

Grand Rapids for early loose leaf lettuce.

Hansen head lettuce for second crop.

### PEAS.

Burpee's Extra Early or Alaska for early peas.

Stratagem for second crop.

### ONIONS.

For extra early green onions we have found that sprouted bulbs, left over from last year, give excellent results.

Oregon Yellow Danvers are excellent for second crop.

### RADISHES.

Burpee's Earliest, or the French Breakfast for early, and the White "Tic-cle" for second crop.

### BEETS.

Burpee's Extra Early, or Extra Early Egyptian.

### BEANS.

Burpee's Stringless Green Pod.

### TOMATO.

Earliana.

### CABBAGE.

Jersey Wakefield.

### CAULIFLOWER.

Early Snowball or extra Early Dwarf Erfurt.

### POTATOES.

Early Rose or Early Ohio.

### CORN.

Peep 'o Day, Howling Mob and Golden Bantam are good. The latter produces very small ears.

### SPINACH.

Long Season or Victoria.

### PEPPER.

Chinese Giant.

Only as much of each variety should be planted as the family can use up while in prime condition. In order to have fresh vegetables throughout the season, new plantings should be made about every three weeks.

The cultivation will consist of keeping the rows free from weeds and the surface of the soil broken up into a dust mulch. When the ground begins to dry out, frequent irrigations will be necessary, in order to keep up the maximum growth. Stunted, slow growing vegetables are never palatable.

### HOME HAPPENINGS.

Professor W. S. Thornber will be one of the speakers for the "Farmers' and Housekeepers' Week," at the State College of Washington, at Pullman, Feb. 9 to 14. At the general session, on the men's program, he will speak on "The Importance of Livestock to the Fruit Grower," and on "Alfalfa for the Fruit Grower." At the horticultural section meeting he will speak on "Orchard Pruning," and "Berries as an Inter-Crop."

A "sheet and pillowcase" party was given on the evening of Jan. 30 at the assembly room of the school house, under auspices of the social department of the Lewiston Orchards Assembly, the members of the committee being Dr. R. W. Cram, C. S. Jacobs and G. E. Ames. The dancers were clad in white costumes that gave a very ghostly appearance to the company. The fine new

piano, recently purchased for the school, was used for the first time.

A meeting of practically all orchardists who do customs spraying was recently held and a price for work agreed upon, of \$2 an hour for the work, each grower to pay for the spraying material actually used. Those who have made the agreement include the following: A. J. Sipes, D. R. Macdonald, F. B. Gano, Sheets & Tondevold, G. E. Ames, T. Keedy, P. H. Mullarky, W. H. Bankson, A. H. Chase, A. O. Sanders and D. W. Clark. The price is the same as was charged by some of the same persons last season and the general agreement, it is thought, will be to the advantage of all concerned.

The literary and social department of the Lewiston Orchards Assembly is planning to give an entertainment Feb. 27, at the school house. A program of literary, dramatic and musical features

will be followed by a dance. The committee in charge consists of Dr. R. W. Cram, C. S. Jacobs, G. E. Ames.

Mr. and Mrs. Davy Crockett were recently here from Oakesdale, Wash. They expect soon to remove here and will build on their orchard lot on Bryden avenue, purchased last year from W. H. Hinkle.

The work of pruning in the orchards is already well advanced and the work of spraying with lime-sulphur will begin as soon as freezing weather is well past.

The cinder path on Bryden avenue was completed shortly before the holidays and is now proving a very convenient walk for the school children.

A dozen or more high power spraying machines will be purchased this season for use in Lewiston Orchards.

A daughter was added to the family of Mr. and Mrs. A. V. McConnell Jan. 23.