

LET US SERVE YOU
Our 50¢ Lunch for Saturday
Chicken of Rice Soup
Choice of Stewed Chicken and Dumplings
Chicken Pie
Canned Beef and Cabbage
Spaghetti with Spanish Sauce
Rolls
Vegetables Parsnips
Mashed Potatoes Asparagus Tips
Desserts
Apple, Lemon and Huckleberry Pie
Coconut Cake, Chocolate Cream Roll
Ice Cream and Sherbet
Tea Coffee Milk Chocolate
Postum and Buttermilk
Our Food is homecooked and our service is good.
MRS. HANBY
FOUNTAIN AND LUNCHES
AT THE
HOOD RIVER DRUG CO.

Rialto
Friday, March 16
THE LITTLE THEATRE CLUB
with local cast presents
'THE WHOLE TOWN'S TALKING
Hospital Benefit
Tickets on sale at Kresse Drug Co.
Saturday, March 17
'THE LAST OUTLAW'
with Gary Cooper, Jack Liden and Betty Jewel. Also
'Hawk of the Hills'
'The Inkwell Imps' and Krazy Kat and News
BROWNIE MATINEE
Prices 10-25-35-50
Sunday, March 18
'CITY GONE WILD'
with Thomas Meighan
and for comedy, 'Daisy Sights'
News, too
Prices 10-25-35-50
Monday-Tuesday, March 19-20
'THE LAST COMMAND'
featuring EMIL JANNINGS
Also an extra added attraction
'40,000 MILES WITH LINDBERGH'
News, too. Prices 10-25-35-50
Wednesday-Thursday, March 21-22
Double Bill
'THE LAST WALTZ'
with an all star cast. Also
'FOREIGN DEVILS'
with Tim McCoy and Claire Windsor
News, too. Prices 10-25-35-50

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Eye service monthly at the
F. H. Collidge Jewelry Store
Next visit Saturday, March 24

SUGGESTIONS ON SOIL MANAGEMENT

(By Gordon G. Brown)

As a general rule soil management in Hood River orchards during recent years has been efficient. This fact is at once apparent when average yields per acre of either apples or pears are studied. With the exception of 1927, tonnage has been fairly heavy and uniform. The 1928 prospects for heavy yields of all fruit trees are excellent.

This paper is intended to emphasize certain facts bearing upon the economical and effective handling of Hood River orchard soils. As a basis for discussion we would briefly summarize what carefully conducted soil analyses show. Your Experiment Station, working in cooperation with the Soil Chemistry Department at Corvallis, has made an extensive study of all leading fruit soils in this valley. Five years ago preliminary work of this character was started. Samples of both surface and subsoil were gathered and analyzed to determine their content of nitrogen, phosphorus, magnesium, potassium, calcium and sulfur.

As a result of these studies the following facts were established: First, our soils are neither excessively acid in character nor excessively basic. As a general rule, the soil solution varies from slightly acid to neutral. This fact is favorable and has an important bearing upon the ease with which leguminous shade or cover crops are established and grown. As would be expected, the amount of nitrogen in our soils varies according to cultural methods employed. Orchards which have been growing in sod, such as alfalfa, and vetch, for a number of years test rather high in total nitrogen. Where such green manuring was discontinued during the previous season, where this crop is left two full seasons, the percentage of nitrogen in the tops is reduced from approximately three and one-half per cent to about two per cent and the root system fails to make further development. In fact, as much as two-thirds of the entire root system has been found in the first four inches of soil at the end of the second season. In closing, we urge a more general use of this crop.

During 1924 and 1925 analyses were made of leeward orchard soils, at intervals of fourteen days from early spring until early winter. The purpose was to determine to what extent nitrogen was available for tree growth and production. The remarkable fact during spring of 1924 was that no nitrate nitrogen was present in Upper Valley soils as late as May first even on soils with shade crops and with a large supply of organic matter. That year, spring was relatively late and soil temperatures low. On the above date, nitrate nitrogen was also present in limited quantity in Lower Valley soils. These facts are emphasized because the presence or absence of available nitrate during early spring has an important bearing upon the development of buds and the "setting" of fruit.

From the data at hand, it is apparent that much of the nitrogen in Hood River soils is unavailable during early spring. In other words, organic nitrogen is present in insoluble form and as such is of little practical value. This fact applies particularly to soils which have been in continuous sod for a number of years. Until this organic material is finely divided and thoroughly incorporated with the soil its value is merely of potential character. As an illustration of this fact, we wish to cite data comparing the amount of nitrogen present in two orchards located on soils of similar character. Orchard Number One was in alfalfa for five years but was spring plowed and followed by clean cultivation until mid-summer. Orchard Number Two was in hairy vetch for a number of years. During spring and summer of the year when analyses were made, no cultivation was given. Differences in the amount of nitrogen are striking. For the period April 20th to July 15th, the average amount of nitrates in the cultivated orchard as indicated by fortnightly sampling was 48 parts per million of oven dry soil as compared with only 21 parts for the non-cultivated orchard. The difference may be attributed to higher soil temperatures in the cultivated tract and to better aeration and less crop competition for the available nitrogen.

Obviously green manure crops must continue to be the principal means of improving Hood river orchard soils. Undoubtedly the purchase of bulky organic fertilizers such as alfalfa hay for this purpose has a place in an effective soil building program but the greater portion of such fertility must be produced within the orchard by means of legume crops such as vetches, alfalfa and sweet clover. During the past year the many orchards were plowed and clean cultivation is planned for the coming summer. This is undoubtedly a step in the right direction.

Practical orcharding under local conditions requires intensive soil management. Where the growing season is short, particularly at higher elevations there is need for fully utilizing every growing day. This means early cultivation as soon as soil and shade crop conditions will permit. By so doing the soil is warmed and the development of plant food is hastened. As a general suggestion, I would urge that the speeding up of growth during the early season makes practical the introduction of special soil management in fall to insure earlier dormancy in trees and, in other words, within limits, the more quickly a tree may be made to attain satisfactory growth and production, the greater the number of growing days remaining to prepare that tree for winter. Where good growing conditions are withheld during the early season, normal development is retarded and encouragement given to prolonging tree activity too late in the fall. The relation of growth conditions and dormancy to the possibility of injury from low winter temperatures is apparent.

The writer suggests the use of several shade crops which have been found adapted to this valley rather than the continued use of any one crop. Alfalfa has been found generally satisfactory especially under Lower Valley conditions. An examination of the root system of this crop, however, in many orchards discloses the fact that nodules developed is feeble or practically absent. Where this condition exists and other grasses have reduced the stand, the presence of alfalfa is of little value as far as gathering air nitrogen is concerned. Under these conditions the grass and alfalfa are gross feeders upon available nitrates usually to the detriment of the trees. Plowing down the stand and following with clean cultivation for at least one season is recommended. When the orchard is reseeded the use of some other shade crop is advised at least for the time being. Winter rye is also valuable and should be seeded approximately by August 15th in order that sufficient growth may take place in fall to store surplus nitrates which would under clean cultivated conditions be leached out during winter. Rye appears to be more valuable for young orchards because of the greater ease with which it may be grown. Where sufficient irrigation is available, sweet clover should be more generally sown. This plant, which only a few years ago, was considered a serious weed and subject to adverse legislation in some states now occupies a foremost place in this country as a soil improver. On account of its extremely rapid growth it may be made very productive with a short time. The deep rooting habit of this crop makes possible the ultimate utilization of inert mineral plant food gathered from the lower soil strata. The Ohio Experiment Station estimates the value of a crop of sweet clover as follows: Taking 5700 pounds per acre as the total dry weight of roots and top, the pounds of plant nutrients contained therein has been estimated as follows: Nitrogen, 150 pounds; phosphorus, 23; sulfur, 15; potassium, 71; calcium, 22 and magnesium, 17.

CENTRAL VALE

Mrs. R. W. Reynolds returned Friday night from a two weeks' visit in Portland with friends.

Mrs. R. L. Lewis spent several days in Portland, having been called there by the death of an uncle.

The T. N. T. club was delightfully entertained by Mrs. J. E. Smith and Miss Esther Hagen in the home of their mother, Mrs. Neils Hagen, last Thursday afternoon.

Clayton Fletcher and his son, Luther, took a truckload of apples to Portland Friday.

Miss Olive Moss of Portland spent the week end with relatives.

Saturday evening Mr. and Mrs. E. B. Moss entertained at a turkey dinner. Miss Olive Moss, Mr. and Mrs. Lee Whetzel, and Mr. and Mrs. H. A. Syster and family.

Miss Vivian Hagen spent the week end with her parents, Mr. and Mrs. Neils Hagen.

The many friends of Miss Marie Fletcher are pleased to know she is improving and is now able to get out generally to be up a part of each day.

Mr. and Mrs. C. A. Seeger entertained friends from Salem this week end.

The Bridge club meets on Friday afternoon at Mrs. J. H. Hill's home. Don't forget the old-fashioned pot luck community supper to be held in the school house Friday evening. Come and have a good time.

Mr. and Mrs. E. B. Moss are very much excited and highly elated over the news they received Monday that their son-in-law and daughter, Mr. and Mrs. Harold Tubbs and little son of Schneectady, N. Y., would be with them some time before April 1. Mr. Tubbs is employed by the General Electric and has been transferred to Los Angeles, having all expenses paid, and must report for duty April 1. Mrs. Tubbs and little son will remain at home in Woonahatchee. Mr. Tubbs expects to take up some work at O. A. C. this spring and Mrs. Tubbs will teach in the art department.

J. G. Jarvis spent the first of the week in Portland on business.

The following officers of the Aloha club were elected at the last meeting: Mrs. A. J. Miller, president; Mrs. Claire Bickford, vice president; and Mrs. Ben H. Lage, secretary. The ladies aid society will hold an all day meeting with Mrs. E. E. House Friday.

Extensive improvements are being made on Van Horn Butte in preparation for Mr. and Mrs. E. L. McClain, Jr., who expect to spend the summer there.

Mrs. Amanda Sears and Mrs. Gladys Edelhertz in Portland, who spent the winter in Portland, have returned home.

Mr. and Mrs. A. E. Lacey went to Portland Monday and expect to return today.

Hans Lars, who has been in Portland taking treatments, spent the week end at home, and returned to Portland Monday.

At the regular Grange meeting Tuesday evening the third and fourth degree work will be put on by Rockford Grange. A birthday table will be prepared for those having birthdays in January, February and March.

The Boy Scout rally will be held at the Hood River high school March 23. All interested in Scout work are invited to attend.

The Ladies Aid will hold an all day meeting at the home of Mrs. E. E. House tomorrow. All women of the community are asked to come and bring a dish for the covered dish luncheon at noon. Come and help finish the work for the Easter sale as well as

UNDERWOOD

Church service will again be held in the school Sunday evening at 8 p. m. by Rev. Schuyler Pratt of Hood River, with the sermon on "What I Believe About God". All are cordially invited to attend and to join the choir being organized.

PINE GROVE

Mrs. Pearl Warno who has been visiting her parents, Mr. and Mrs. B. R. McDonald, left for her home at Ottumwa, Ia., Friday.

Mr. and Mrs. Claire Bickford spent last Sunday with Mr. and Mrs. Ralph McDonald at Maryhill, Wash.

Mr. and Mrs. Nixon Battey and daughter returned from Corvallis last Friday and left Saturday for their home in Woonahatchee. Mr. Battey expects to take up some work at O. A. C. this spring and Mrs. Battey will teach in the art department.

DAN WUILLE & CO., Inc. MAKE ANNOUNCEMENT

In order that the fruit of our Mid-Columbia clientele may be handled to the best advantage in the future, we are increasing our facilities by augmenting our Warehouse space and installing Washing and Packing Plants.

The contractor is now engaged in remodeling our Hood River Warehouse, and the New Central Packing House, to be located there, will be available to our growers before the coming harvest.

The new service has been made available by DAN WUILLE & CO., Inc., because of the confidence the officials of the company have in the stability of the Hood River Apple as an outstanding export product for United Kingdom consumption.

The local extensions outlined above are in line with progress made in expansion of United Kingdom branches. DAN WUILLE & CO. now cover every wholesale center in the United Kingdom.

DAN WUILLE & CO., Ltd. BRANCHES AT

LONDON, LIVERPOOL, GLASGOW, MANCHESTER, BRISTOL, CARDIFF, HULL, NEWCASTLE, BIRMINGHAM, LEEDS.

Growers desiring further particulars of facilities available, apply at the Company's local office.

23: Music, Mrs. J. B. Doggett, Mrs. F. B. Hess and Mrs. Chetham; refreshments Mrs. Lester Wilson, Mrs. H. C. Wyatt and Miss Bernice Everson. The music committee met with Mrs. Doggett, Thursday afternoon and the refreshment committee with Mrs. Wyatt, Wednesday afternoon.

Job Naldret spent last week in Portland on business. He was accompanied home by his son-in-law, J. T. Waters of Beaverton.

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Cherry Manages Laurnell

James Cherry of Mosier last week took over the management of the Laurnell market. Mr. Cherry, who is well known to many local folk, is an experienced meat man, and Hood River folk are glad to welcome him here in a business association.

Claude Rowland of Mosier is assisting Mr. Cherry at the Laurnell, which is owned by Schlessers Bros. of Portland. It is possible to cut steaks and

run off copies of songs and other memory work for the whole school. Also objective examinations have been much more effective since it is possible to run off a clear and complete copy of the examination for each pupil.

Each pupil in the three upper grades has learned a selection of prose or poetry which he will give in competition with his room Thursday and Friday of this week in the regular school work. From the three grades six children will be chosen to compete for first place at the semi-final next Saturday. Of the six selections, two will be ornamental, two serious, and two humorous.

A Remington typewriter, purchased by the board for the use of the teachers in preparing their work, is greatly appreciated in Pine Grove school. With the assistance of the typewriter and mimeograph purchased earlier in the year it is possible to cut stenils and

More Bargains At
Johnsen's Shoe Store
TOMORROW AND SATURDAY,
MARCH 16 AND 17
BEGIN ANOTHER BIG WEEK
of fast and furious selling, offering Greater Savings on many lines of Men's, Women's and Children's Fine
HIGH GRADE FOOTWEAR
TO SELL OUT - CLOSE OUT ALL SURPLUS SHOE STOCKS
ENTIRE STOCK ON SALE
Including all new arrivals for Spring and Easter wear at Substantial Reductions
HURRY FOLKS! Get yours before it is too late. This Mighty Saving Event Will Come to an End Soon. NEVER WERE SHOE BARGAINS BIGGER - VALUES GREATER.
J. C. JOHNSEN HOOD RIVER OREGON

Spring Days
Spring days are arriving. Work of clearing the lawn and preparing the garden, of that long hike in search of wild flowers or a tussle with the golf clubs—all are fine for the appetite. We have the groceries to satisfy the appetite.
2121 W. T. FRASIER
HOOD RIVER, OREGON