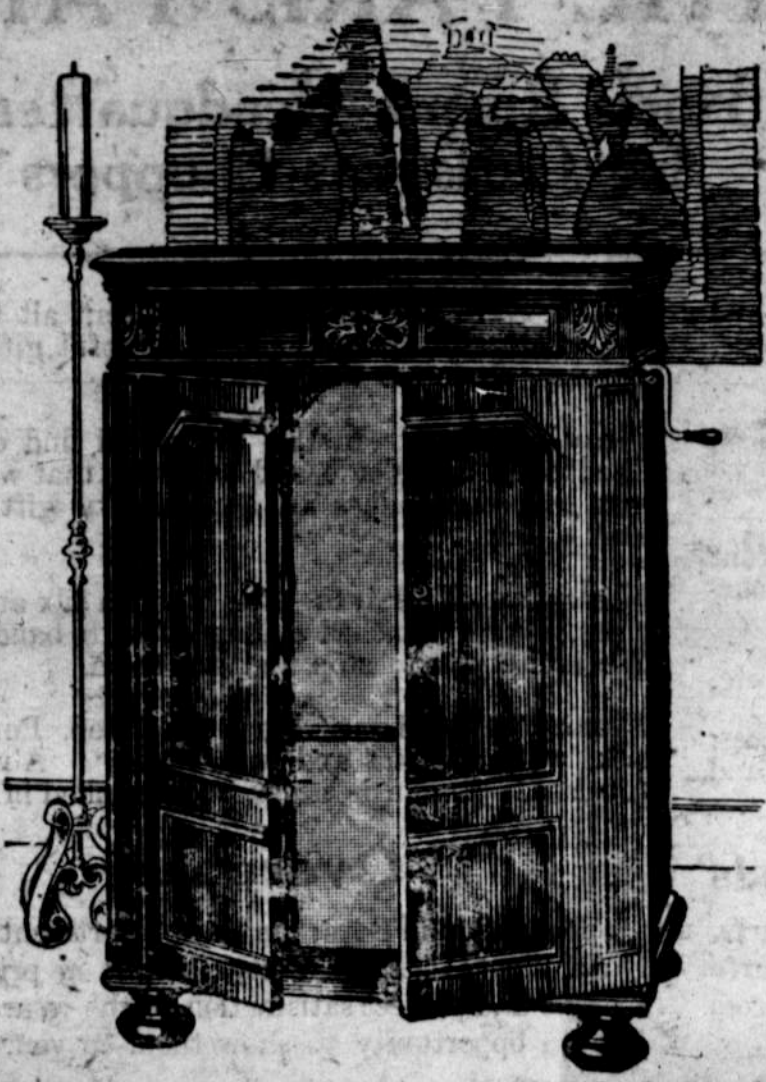


The Hood River Glacier.

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No. 27



"Amazing"

—so say the multitude which has flocked to our daily demonstrations of

The Orthophonic Victrola

COME IN TODAY

Hear the new musical marvel that has set a nation to talking.

Prices: \$85 to \$275

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The Rexall Store

ORDERS WILL BE FILLED IN TURN

Shop in Hood River For This Christmas!

CHRISTMAS Goods from the great merchandising centres of the world have been brought here for you. There are variety and quality—at right prices.

Best of all, you can count on what you buy, because the men who sell it to you are your neighbors. They want and need your support.

21 Shopping Days to Christmas!

BUY NOW—AT HOME—and you will help yourself and the community.

FIRST NATIONAL BANK

HOOD RIVER, ORE.

PREVENT THAT COLD WITH

DE WITT'S COMPOUND GADUOL TONIC PILLS

EXTRACT OF COD LIVER OIL

With Iron and Other Tonic Ingredients

It is impossible to overcome a feeling of repugnance and sometimes of nausea, when your physician prescribes Cod Liver Oil. This feeling is only natural, as Cod Liver Oil in its pure state is not pleasant to take, and, in fact, it is impossible for many people to take it in this form.

DeWitt's Compound Gaduol Tonic Pills, which contain Extract of Cod Liver Oil, have been especially designed to overcome the objections set forth above.

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Under a Living Trust a customer may arrange with our Trust Department to handle all of his affairs.

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Fathers, why not make the whole family happy with one buy?

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Mothers and Children, make father happy buy something for the Car!

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Heaters. Automatic Windshield Cleaners. Cigar Lighters. Foot Warmers. Radiator Covers. Onyx Gear Shift Balls. Motometers. Snubbers. Spot Lights. Radiator Ornaments.

and many other useful auto necessities too numerous to mention.

WATCH OUR WINDOWS FOR CHRISTMAS SUGGESTIONS

TWIN PEAKS AUTO CO.

Phone 4331

TUBER YIELD IS INCREASED

UPPER VALLEY EXPERIMENT MADE

Section Shows an Increased Volume of Potato Growing and Growers Make Good Returns

(By Gordon G. Brown)

During the past growing season the experiment station has had occasion to continue a number of tests in the Upper Hood River valley having to do with influence of commercial fertilizers upon potato yields. The experiment to which reference is here made was conducted at the Harvey Hudson ranch in that section. Results are so outstanding and encouraging as to warrant considerable explanation. The growing of potatoes in the Upper valley is increasing in volume and those engaged in this industry have made good returns.

The purpose of this experiment was to demonstrate the relative commercial value of a given fertilizer when applied under uniform soil conditions in various amounts. The fertilizer used was one which we have been testing for several years and found uniformly satisfactory in that economical increase in yields have been realized. The fertilizer is made up by weight of approximately 30 per cent sulphate of ammonia and 70 per cent superphosphate. The former tests around 21 per cent nitrogen and the latter 19 per cent phosphoric acid. In compounding this mixed fertilizer sulphate of ammonia was charged at \$95 per ton and superphosphate at \$55 and mixing at \$2.50. On this basis the mixture cost \$54.09 per ton or \$2.70 per 100 pounds. In applying this fertilizer the following amounts per acre were used, each representing a different experiment: 350, 700, 1050, 1400, 1750, 2100, 2450 and 2800. The 350-pound application was considered as an extreme minimum and the 2800 pounds as a maximum from which economical responses might be reasonably expected. Our point of view was not to determine the amount of fertilizer which gave the largest percentage of profit on the money expended in fertilizer but rather to arrive at the greatest net return after all expenses, including seed, were paid.

Each of the above experiments were subdivided into equal parts, the one representing the use of whole seed, averaging uniformly around three ounces each and the other, cut seed, 1 1/2 ounces each, being whole seed cut once. Thus we have 16 different experiments, eight of which represent as a series whole seed and the other eight cut seed, with fertilizing in each series varying from 350-2800 pounds. In the case of the 350-pound application the cost for fertilizer alone was \$9.45 per acre. To this must be added the cost of cut seed (1379 pounds per acre) on the one hand, and the cost of the whole seed (2758 pounds per acre) on the other. Seed was charged at \$2 per 100 and 10 cents for cutting. The minimum cost per acre for fertilizer and seed was thus \$38.40 (cut seed) and \$64.61 (whole seed). On the other hand, where 2800 pounds of fertilizer per acre were applied the cost was \$106.55 (cut seed) and \$130.76 (whole seed). These latter figures are staggering sums in the light of ordinary yields and prices received for this crop.

The variety thus tested was the Netted Gem (Russell Burbank). The seed was planted one foot apart in the row with rows running three feet apart. The tubers were selected from a bin of miscellaneous character, care being exercised to select those of uniform size and shape typical of this variety. The cut seed was thoroughly mixed with the soil when planting at approximately the depth of seed, (4 to 6 inches), care being employed to prevent direct contact between fertilizer and seed. Land plaster was sprinkled over the cut seed and thoroughly mixed before planting. The field had been in alfalfa for a number of years and was fall plowed in 1924.

Yields are strikingly large as is also the percentage of No. 1 graded to U. S. standard. The whole seed uniformly gave larger yields than the cut seed for the whole series ranging from 350 to 2800 pounds fertilizer. Largest yields are associated with the largest applications of fertilizer. The lowest gross yield was 217 sacks per acre (350 pounds fertilizer per acre) and the highest 407 sacks (2800 pounds fertilizer per acre). It is interesting to note, however, that the yields of 393 and 395 sacks were taken from the two plots with whole seed, the former representing a 1750-pound application and the latter 2100. Here it will be seen that the law of diminishing returns begins to apply.

The per cent of No. 1 grade in all experiments is very high. There was little to distinguish any of the different tests in this respect. The lowest per cent (77.4) was found in the case of the 2800-pound application where cut seed was employed. As a general rule whole seed yielded a higher per cent of No. 1 than cut seed. This was due to greater uniformity and somewhat larger sizes as the amount of fertilizer increased. Where only 350 pounds of fertilizer per acre were used, cut seed yielded 90.18 per cent No. 1.

The writer has endeavored to be conservative in figuring net returns. With a runaway market this year and with prices around \$3 per 100 for No. 1, the temptation naturally is to calculate upon a false basis. Were we to credit the crop of 407 sacks at \$2.50 the net result after deducting as much as \$130 for seed and fertilizer would be astounding. Upon this basis net returns would continue to pyramid with out interruption and the assumption would be the more fertilizer we applied, even with whole seed, (27.5 sacks per acre costing \$53.16) the more the profit. That would be true in 1925 but not on an average. A five-year average may be and often is based on \$3 seed and a 75-cent value of the crop resulting from superabundance of other depressing factors. Computations have been made upon a different basis. No. 1 is credited at only \$1.50 per 100 pounds, No. 2 at 80 cents and culls at 50 cents. These prices may seem low

but undoubtedly are more representative.

Using the above as a basis, net returns for both classes of seed continue to increase until around \$30 per acre has been expended for fertilizer. This means applications of about 1900-2000 pounds per acre. Greater expenditures beyond that level in the case of cut seed, although showing a splendid profit, gradually indicate decreased returns.

Net returns per acre based on total value of No. 1 and No. 2 grade, less cost of seed and fertilizer, vary from \$117.90 on one hand to as high as \$191.26 on the other. The lesser net value, which is by no means an insignificant one, was secured with the smallest application, 350 pounds per acre with cut seed; the larger value came from the use of 1900 pounds fertilizer with whole seed. There are two other experiments, however, which show practically equivalent net results. One is found in the case of cut seed, 1750 pounds, both from whole seed. The net value in the former case was \$190.28 per acre and \$186.98 for the latter.

From the above it is apparent that considerable judgment should be exercised in the amount of money one may expend in seed and fertilizer taking the normal average yield and prices. Next year seed will undoubtedly be very high. There will be need for economy there. Although, as previously explained, the whole seed in each series gave a larger yield than the cut seed and as a rule a greater net return, it was also true that within certain limits, (up to around 1000 pounds fertilizer per acre) cut seed, given a slight advantage of 350 pounds fertilizer over whole seed, showed the highest net return. On the other hand fertilizers probably will not vary greatly in price over that of this year. It would seem therefore advisable to be more liberal in the use of fertilizer and less so with seed. Hard and fast conclusions are not attempted here but in closing it is emphasized that the soil must be well built up with organic fertilizers (such as clover and alfalfa) before the economical use of fertilizer or high priced seed can be made. It is quite possible that with other varieties than Netted Gem and with less favorable soil conditions these results might not be duplicated. Ideal cultivation and irrigation were afforded the test above referred to.

BIG WRESTLING BOUT SATURDAY NIGHT

Judging from the advance interest on the part of athletic fans in all parts of the county and in other mid-Columbia cities, the wrestling matches for Saturday night will fill the Pythian temple to overflowing. Indeed, indications are that the limited number of tickets will be gone several days before the match starts, and this is something new in the realm of sports in Hood River.

The finish bout between Fred Mortensen and Thye, who have met before, of course has attracted the greatest attention, but the preliminary match this time will also be to the finish. Jim Prokes is claimant to the Greek light heavyweight championship, and George Barrows of Longview, Wash., holds the belt for his state. These two will give the fans something to yell about.

The Hood River folk will begin to lift and heave and raise their voices when Thye and Mortensen start their grappling. Indeed, the match bids fair to be the most interesting ever staged here. The Durable Dime is confident that he will be wearing the golden belt by this time next week, but Terrible Ted is just as confident that Mortensen will be unable to down him.

A peculiar thing about the wrestling contest that is on between Mortensen and Thye is that it is interesting more deeply the older generation of men in city and county. The crowds that watch the bouts are made up largely of older men. The youngsters who do go, however, yell as loud as roosters at a football game.

The wrestling bouts have intrigued some of the women folk, and those who have the bug cannot be held from next Saturday evening's match.

Billy McGuire, Upper Valley orator, who helped popularize wrestling here 15 years ago, will referee the match. Mr. McGuire is a square shooter, and the fans will be assured of fair decisions.

The bout will not begin until 9 p. m., in order that the business folk of the city will have an opportunity, after closing the stores and shops for the evening, to see the event.

OLSEN PLAYERS ARE COMING IN THE SHIP

The Moroni Olsen Players, who several weeks ago were presented at the Rialto theatre in Shaw's "Pygmalion," will be seen tomorrow night in John C. Irvine's "The Ship." The Olsen Players, who are now on their third season of repertoire in the Pacific Northwest, are being presented this year by the Little Theatre club. Season ticket sales have been gratifying, and there is an assurance that the finished players will be greeted by the large audience that they merit.

"The Ship" is a vehicle in which the talent of the players is brought out. It is the old story of a father who wishes his son to pursue his life as a master shipbuilder. The youth, however, is not interested in material things. He is a dreamer, a philosopher and a poet. But the boy succumbs to the will of his father and sets sail on one of his ships. And the climax of the story comes as a result of this action.

All holders of season tickets have been asked to make their reservations before noon tomorrow. Rural ticket holders should send self addressed and stamped envelopes for their reservations.

Cosby to Talk

At the next regular meeting of the Hood River Cooperative Poultry association Prof. H. E. Cosby, poultry specialist of O. A. C., will be present to speak on poultry problems. The meeting will be held in the court house Saturday at 2 p. m. All who are interested in poultry should be present, and the public is invited.

ORCHARD TRIP BEING PLANNED

GROWERS STUDY HARDY STOCK

Experiment Station Plans Motor Caravan Through Fruit Sections Next Monday Morning

Fruit growers in Hood River valley and adjacent sections will be interested in a local orchard trip planned by the experiment station. The trip will be Monday morning, December 7, starting at 9 o'clock from the office of the experiment station, located in the Pythian building. Growers will provide their own means of transportation from orchard to orchard. Gordon Brown, will be in charge.

The object of this excursion is to afford growers an opportunity to gather first hand information bearing upon the problem of hardy stocks for apples and pears. The heavy mortality in trees experienced during the past six years has been so severe as to cause much misgiving regarding the advisability of further planting. Frankly, the grower doesn't know what to do. Obviously there is little danger of an overproduction of winter pears considering the losses in young trees. On the other hand, apple production of our best varieties must soon decline unless further plantings are soon made.

Mr. Brown has consistently urged the merits of the Comice variety of pear to provide a hardy body on which other more profitable varieties may be top-worked. After rather extensive observations based on an orchard to orchard survey, he recommends this variety for this purpose. The orchardist will be given an opportunity to judge the merits of this tree where grown under severe conditions. A few observations will also be made on Eastern, Old Home, Umenis and Black Twig if time permits. The merits of Japanese and French roots will be touched upon.

There is no problem of greater importance locally than that of hardy stocks. The experiment station is anxious to assist growers in avoiding mistakes in planting that have been made in the past.

The excursion will start promptly at 9 a. m. as scheduled. About seven or eight orchards will be visited.

HOOD RIVER WILL HAVE SHOPPING DAY

Mercantile establishments and shops of Hood River have joined in a campaign, fostered by the Chamber of Commerce, for the purpose of extending and developing the trade territory of the section. Since the Interstate bridge was constructed across the Columbia here last year, the trade area of the city has shown a material gain. It will be the aim, however, in the new campaign to extend the trade scope and bring the population tributary to Hood River to form the habit of shopping locally.

During the coming year the merchants of the city, cooperating, will issue a four-page, seven-column trade circular each month. Four thousand of the circulars will be distributed throughout the trade area. The city monthly will have a shopping day, and each merchant will be allotted a space on the trade bulletin for advertising some distinct bargain for the day set aside for shopping day.

BUSINESS WOMEN BEAUTIFY PLOT

The Business Women's club has brought to materialization a dream of several years ago, when its members laid plans for the beautification of a triangular plot at the west edge of town, where Oak street and Cascade avenue, the thoroughfares carrying the Columbia River highway traffic, across town, intersect. The property had come into city ownership through failure of payment of street assessments. The business women prevented the lot from becoming the pest of signboards.

Steadily the women pursued their plans. They secured the cooperation of the city council and the active aid of the street committee and City Engineer Clark. Today the unsightly triangle has been changed into a terraced parklike. The women have expended a material sum of money on the work. Long lengths of handsome terrace walls have been constructed. Next spring the park will blossom forth with flowers and native shrubbery will enhance its appeal.

REGIONAL BOARD TO MEET IN SEATTLE

The first formal meeting of the Pacific Northwest Regional Advisory Board, recently organized under auspices of the American Railway association to function in the matter of securing a proper distribution of cars in the movement of commodities of Oregon, Washington and Idaho, will be held tomorrow in Seattle. Those who will attend from here are A. E. S. Steele, C. T. Baker, and E. O. Blanchard, the latter having received an appointment on one of the board's committees.

The work of the advisory board, it is anticipated, will bring about the elimination of car shortages.

District K. P. Convention Near A large delegation of members of Wascana lodge, Knights of Pythias, will depart to Wasco Friday night to attend the annual district convention of Pythians of the mid-Columbia. The local lodge will compete in drill work for a silver loving cup presented by Deputy Grand Chancellor A. W. Meyer, of Cascade Locks.

The Wasco lodge will serve a banquet at 7.30 o'clock.

Order your Christmas cards now.