# Daily Democrat.

## FRUIT GROWING.

**How to Grow Trees, Care of Orchards, Does Fruit Growing Pay.**

The following is a paper read by G W Kuthe before the Tangent Grange, Nov 25, 1893, and published by request:

Tree growing is so well understood in this part of the country, that it is not necessary to enter into a lengthy discussion of that, a few words however will suffice.

Fruit trees, like other plants, are first started from seeds, planted just as we would plant beans, potatoes or any other kind of vegetables. The greater portion of the apple, pear and cherry, used on this coast, are grown in France. They are allowed to grow one year from the seed; they are then called seedlings, after which, they are ready for propagation into the various varieties of fruit trees wanted.

Apples, pears and cherries, [unlike plums, prunes, apricots, nectarines, etc] can be propagated only from seedlings of their own origin. That is to say, you could not propagate an apple bud into a cherry seedlings and vice versa as the case with plums, prunes and peaches. Propagation, as you no doubt understand, consists in inserting a bud from a grafted fruit tree into the seedling. The bud is tied with a string until it is grown solid, which will be in about 20 days, after which the string is taken off and the seedling cut off just above the inserted bud. The growth will then proceed from the inserted fruit bud, which makes the seedling a budded fruit tree; this process is called budding.

Grafting consists of inserting a coin from the grafted tree into the seedling stock by a different process than budding, but amounts to just the same thing.

The plum, prune, peach, apricot and nectarines are grown either on peach stock, ordinary plum or myrabolu plum roots. Propagation consists of budding or grafting the same as described heretofore.

Grapes, currents, gooseberries, roses, raspberries, quince, and a great many other things we might mention are propagated either by cuttings or layers. Cuttings consists simply in cutting pieces of the limbs or branches and sticking them in the ground.

Layering consists in bending down the branches and covering them with dirt, allowing them to take root, after which they are severed from the main vine or plant, when they have become plants founded on their own roots—perhaps this is enough on the propagating of trees.

We will prdceed to the tree planting and care of orchards. The first and perhaps greatest question to consider in planting an orchard is the location.

It is fooling away time and money to plant trees on white flat land. High black soil, that will grow good crops of grain or vegetables, is also suitable for an orchard. The ground should first be plowed as deep as possible, or what is still better it should be tile drained and not be set closer than 16 feet each way. Apple, pear and cherry trees should not be set closer than 20 feet each way. After planting, the ground should be plowed as deep as possible once or twice a year. In addition to this it should be cultivated thoroughly from spring until the middle of July, after which it should not be stirred until the fall rains set in.

Pruning—Plums, prunes and peach trees should be cut back at the time of planting to not more than 2 feet, apple, pear and cherry to not more than 3 feet. The first year after planting the limbs should be cut back not to exceed 6 inches from where they started. The second and third year they should be cut back to ten inches, after which about one-third of the new growth should be cut off each year. All kinds of trees require all the strength of the ground. Apple, pear and cherry trees will begin bearing about the fourth or fifth year from planting.

Prunes with proper care bear 20 pounds of green fruit per tree the fourth year; one bushel the fifth year; the eighth year they will bear our bushels per tree, and continue increasing until 10 or 15 years old. We have now considered growing, propagation, planting orchards and pruning. We will next take up the question of insect pests.

One writer in mentioning insect pests, has penned the following:

They come the merry insect train,
The borers and the dippers.
The little gnats waltz in again
And eke the gallinippers
The vast colored ants, the flies
Tittilate our features
The bee with penetrating ties
And sundry sundried creatures.
The weevil and the cut worm now
Do polish up their armor.
The chinch bug makes his vernal bow,
In ambush for the farmer.
The wired cuculio setteth out
To mad the fruit tree tiller
And in each garden look about
Ten billion caterpillars

Among the injurious insect pests that infest fruit trees in Oregon may be mentioned: The San Jose Scale, wooly aphis, green aphis, peach borer, codlin moth, and cherry, und pear sing; the most injurious is the San Jose scale. This is without doubt the most pernicious insect known in this country, it infests all decidous trees, they have also been found on some of the evergreen varieties.

They infest the bark of the limbs and trunk of the tree, also the leaves and fruit. Their presence upon the bark will soon turn the sap part of the wood, beneath the bark, to a reddish color, their presence upon the fruit causes it to be covered with bright red spots and when badly affected the fruit shrivels up and cracks open. The scale of the female is circular, and flat, its color is gray and yellow, the scale of the male is black. The full grown scale is scarcely one sixth of an inch in diameter, their eggs are yellow, the young larvae are very active and of a pale yellow color, they are barely to be seen with the naked eye. The fact that they multiply so rapidly and infest to nearly every variety of tree and shrub, makes them the most pernicious insect known.

The wooly aphis is one of the worst enemies to the apple tree, but does not bother any other varities of fruit trees, the fact that it works principally on the roots of the apple, makes it one of the hardest to destroy. This insect is of a dark russety brown, its body is covered with white down of a cottony appearance, on close examination they may be found in nearly every orchard and nursery in Western Oregon. We might go on in this way describing the different pests and remedies for their extermination and consume a great deal of time but perhaps it is not necessary.

The next thing we want to consider. Does fruit growing pay? We have not time or space to make but one illustration here, that of prune growing. It would not be a very hard matter at the present time for us to determine whether "wheat growing pays or not." Were every bushel of wheat grown in Oregon sold at the present prices it would not pay for the sugar and coffee consumed in the state. We will calculate on one acre of prunes for five years paying $40 for the land, setting it to trees and counting expenses for five years.

Expenses—1 acre land, $40; 130 trees, 4 cents, $5 20; plowing land, $1 50; setting trees $1.50; plowing and harrowing, $1 75; cultivating four times, $1; Total expenses end of first year including cost of land, $50.95. Second year—Plowing land—$1.50; pruning trees, 50c; cultivation four times, $1; incidental, $1; Total second year, $54.95. Third year—Plowing land, $1.50; pruning 75c; cultivating four times. $1.50; incidental $1; Total third year, $59.70. Fouth year—Plowing, $1 50, pruning, $1,50; cultivating $2; incidental, $2; Total fourth year $66 70; Fifth year—Plowing, $1.50; pruning $2; cultivating, $2; incidental, $2; Total fifth year; $74 20.

Credits—1st year, 0000; 2nd year, 0000; 3rd year, 0030, 4th year 20 pounds per tree or 26000 green fruit, which would make 856 pounds dried fruit, less ½ for drying, leaves 433 pounds, at 6 cents per pound, $25.98 5th year—60 pounds per tree, or 7800 pounds of green fruit, which would make 2600 dried fruit, less ½ for drying, 1360 at 6 cents per pound would be $78 plus $25.98 equals $103.98, less $74.20 equals $29.78 which would be the net profit per acre at the end of five years, after paying for the land and counting all expenses.

H. E. HYDE. W. H. DINDINGER. D. H. JAMES

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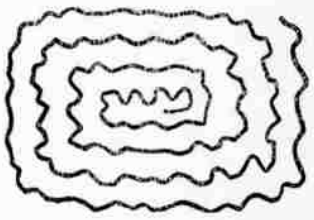
Wheat 45c.
Oats, 25c.
Flour, $4.00.
Butter, 20c.
Eggs, 30c.
Lard, 12 to 15c.
Pork—hams 12 to 15c; shoulders 9 to 10c; sides, 11 to 13c.
Hay, baled, $7
Potatoes, 40c.
Apples, 4[illegible]
Hops 16c.
Dried fruit—plums, 9c, apples, 9c.
Chickens, $4 00 per dozen.
Beef, on foot, 1½c.
Hogs, dressed, 6c.



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If you suffer from Constipation, Indigestion, Bilious Attacks, Sick or Bilious Headaches, or any derangement of the liver, stomach or bowels, try these little Pellets. They bring a *permanent* cure. Instead of shocking and weakening the system with violence, like the ordinary pills, they act in a perfectly easy and natural way. They're the smallest, the easiest to take—and the *cheapest*, for they're *guaranteed* to give satisfaction, or your money is returned. You pay only for the *good* you get.

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It's proprietors are so sure of it that they'll pay $500 in cash for any incurable case.

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WARNING—I, the undersigned, warn everybody to not give any credit on my name whoever it is, for I will not be responsible.
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LOST.—Somewhere in the eastern part of the city an iron spirit level, with three levels. Please return to N D Conn

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The Noted Clairvoyant and Life Reader is now here, and can be found at her residence next door [illegible] She tells about all subjects, past, present and future; love troubles, absent friends and business. [illegible]

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Call on me and you will not be deceived.

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WANTED.—County and city warrants bought and sold by H F Merrill.

## NEW : FURNITURE,

MY STORE IS NOW FULL OF FIRST-CLASS FURNITURE, CONSISTING of bed room sets, chairs, lounges, etc., which I will sell at

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Cabinet photos from $1.50 to $4.00 per dozen. Enlarging pictures a specialty. 16x20 crayons framed for $10.00. We carry a large stock of 5x8 and stereoscopic views of Oregon.

# DRUGS,

Stationery, Toilet Articles, Musical Instruments, Etc.

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# WANTED

At the store formerly owned by Allen Bros.,

**BUTTER,**
**EGGS,**
**LARD,**
**BACON,**
**and CHOICE APPLES,**

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## Firemens Election

NOTICE IS HEREBY GIVEN THAT on Monday, the 11th day of December, 1893, at the hall of the Albany Engine Co, No 1, the annual election of the Albany Fire Department, of the city of Albany, Linn county, Oregon, will be held for the purpose of electing a Chief Engineer and an Assistant Chief Engineer of the said Albany Fire Department.

The following persons have been appointed by the Board of Delegates of said Albany Fire Department as judges of said election towit: W E Gillett, Fred Bloom, M D Phillips.

Said election will commence at one o'clock p m and continue without closing the polls until six o'clock p m of said day.

Albany, Or, Nov 29th, 1893.
GEO A LANDRETH,
Pres, Pro Tem.
J W White, Sec Pro Tem.

## Assignee's Notice.

Notice is hereby given to all whom it may concern, that on the 4th day of November, 1893, Anthony Propst and F C Butler duly made an assignment to me of all their property for the benefit of all their creditors, in accordance with the general assignment laws of the state of Oregon; therefore all persons having claims against the co-partnership firm of said Propst and Butler are hereby notified and required to present the same to me under oath at the office of W R Bilyeu in the City of Albany, Oregon within three months from the date hereof.

Dated this 17th day of November, 1893.
FRANKLIN PROPST, Assignee.

## Notice to Stockholders:

Notice is hereby given that the annual stockholders meeting of the Farmers & Merchants Insurance Company of Albany Oregon, will be held at the company's office in the city of Albany, Oregon, on Wednesday, January 3rd, 1894, at the hour of 2 o'clock p m of said day for the purpose of electing 9 (nine) directors of said company to serve one year and to transact such other business as may regularly come before said meeting.

Dated December 2nd, 1893.
J O WRITSMAN,
Secretary
W F Read,
President.

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