Orchard and Garden.

THE LOUDON RASPBERRY.

Where the plantation is solely for fruiting we set the plants 4 ft apart each way, the same as hills of corn in the field, marking the land both ways with a corn marker. This enables us to do nearly all of the work with a horse and cultivator. It is not neces-gary to stake the Louden raspberry, gary to stake the Loudon raspberry, since it is not a rank grower like the Cuthbert. We set out the plants in the fall, or in very early spring. One cause for failure in planting the red ruspberry is in planting in late spring, when the plants, often perish if dry weather follows. Set the plants 4 to 5 in deep, firming the soil carefully over the roots, cutting back the canes to within 4 in of the ground. If the cultivator is kept going both ways every few weeks the plantation will need but two or three hoeings throughout the season. The plants are perfectly hardy and will require no where protection except in the northern U S and Canada.

except in the northern U S and Canadá.

In the early spring we clip with a pair of hedge shears about 1 ft from the top of the raspberry canes, leaving canes about 2 to 3 ft high. The secon' year keep the cultivator going both ways between the rows once a week all through the season, being careful not to cultivate just before the pickers go through the rows, since this would knock off a portion of the ripe fait. We market the Loudon invariably in pint baskets. Do not plant the Loudon or any other raspberry on low or wet land. When the plantation is desired partially for fruit and partially for plants, the rows are cultivated only one way with rows 5 ft apart, sucker plants being allowed to form a continuous hedge row. A fair amount of fruit can be secured by digging out the sucker plants entirely for a space of 2 or 4 ft along the row, leaving a good-sized hill after the digging is over.—[Charles A. Green, Monroe Co, N Y.]

BIRDS AND FRUIT GROWEDS.

A method to exterminate entirely in our orchards all the insect pests is impossible. However, the birds are the natural enemies of these pests. They feed, especially during the breeding season, almost exclusively upon insects, and they require no care or expense on the part of the horticulturist. They will do their beneficial work any-They will do their beneficial work any-how, whether their efforts are received thankfully or not. As the birds in-crease, the insects must decrease. The closer settlement of our state has seemed to greatly decrease the natural enemies of our bird friends, but, alas, has been the bringer of far worse ene-mics—the boy with a gun, the woman with a feather in her hat, and, too often, the horticulturist even proves an enemy. an enemy.

an enemy.

The depredations of the birds upon fruit are few and of little consequence. The robins, it is true, will knock the cherries off, and the owner in his rage will not pause to think of the many slugs and curcuilo beetles those same birds have destroyed for him. All the year round the woodpecker digs for the borers and when the apples ere ripe he is killed because he makes a hole in the side of a big red apple. We have often wondered, too, if even in this case he was not after the apple worm on the inside.

often wondered, too, if even in this case he was not after the apple worm on the inside.

Among the winter birds the owls can well claim some of our attention. The finity caused annually by mice and rabbits amounts to many hundreds of collars. It is to be regretted that the owls so easily fail a prey to the hunter's gun, as their food through the winter, and to a large extent during the cummer also, is composed entirely of small mammals. In many parts of the same, so the separate species need not be kenne up in detail. Borers of various kinds, notably the flat-headed borer and the hickory borer are among the most the lickory borer are among the mean the hickory borer are among the most the tree trees and the protection to the forest trees by these birds is doubtless of far greater value than the work they do in the critical and the mortgage. However, and the mortgage is the service of the mortgage. However, and the mortgage is the service of the mortgage is the woods made and the mortgage. However, and the mortgage is the service of the mortgage is the service of the mortgage. However, and the mortgage is the service of th

chard. Among certain of the woodpeckers, especially the flickers, ant cating is a favorite pastime. The yellowshafted flicker or golden-winged woodpecker is a common bird throughout lowa, and in the southwestern part of the state the closely related species, the red-shafted flicker, is not at all uncommon. Prof Beal, in examining bird stomachs, found in a single stomach of one of these birds over 3000 ants. The number destroyed by even one bird in a year must be enormous. As to the common birds, we can safely conclude that the harm they do to the horticulturist is of little consequence; the amount of good done by them is in direct proportion to their numbers; protection is the only thing necessary to insure their rapid 'nerease and maintenance of numbers to almost any point.—[Wilmon Newell, Coos Co. N. H.

Potash in Ashes; 20 bbls unleached wood ashes would usually weigh about 2400 lbs. This amount would supply as 2400 lbs. This amount would supply as much potash as would be furnished by from 250 to 300 lbs muriate of potash. Double this quantity of ashes might be used if the soil were quite seriously in need of lime, although such an amount would furnish more potash than would be required immediately. Better results would be secured by harrowing in the ashes than by plowing them under. [Prof II. J. Wheeler, R I Exper Sta.

Cold Storage Pays-The Jersey clder apple under ordinary conditions will not keep later than Oct, and is but an inkeep later than Oct, and is but an indifferent fruit at the best, both as to quality and appearance. In the summer of 1899 these apples were worth only 75c p bbl and with little demand. One farmer placed 500 bbls in cold storage at Philadelphia, where they were kept in perfect condition until last April. The manager of the cold storage house stated that they could have been kept the full year. In April the apples found a ready sale at \$4.50 p bbl. The charge for keeping the apples in cold storage was 50c p bbl, so that the grower realized a net increase in price of 3.25 p bbl, or a total profit of 1695.

A New Variety of Corn I have been testing differs from any other corn in cultivation. The New Century Wontesting differs from any other corn in cultivation. The New Century Wonder corn stools out like winter wheat, producing from 10 to 20 stalks from each seed sown. Each stalk bears six and seven good ears, very uniform in size and shape; the ears being about 10 in long. The kernels are of a beautiful snowy white. This variety, when used green, is a most excellent sweet corn. When ground it makes the finest, whitest meal known. It rises like wheat flour and can be used in bread, ples, biscults, etc. The corn produces at the rate of 150 bu p a. In regard to yielding, it is probably the greatest multiplier of any vegetable product known, as by fair comparison, it yields 40 000 keinels to every one planted. It is a most excellent feed for horses, cattle and hogs.—[S. L. Watkins, Erie Co, N Y.

Marketing Apples in N E-According to a leading Mass orchardist this is 62% p bbl in carloads. He estimates plcking 12½c, facing and sorting 5c, heading 2½c, barreling 20c, drawing to car 5c, freight to Boston 13½c, cartage 5c. He also estimates spraying 2@3c p tree for each time, or 6@9c for three times, and thinning 5c p bbl.

hens bought the groceries. Every year potatoes were sold to help along.—[Lyman Abbott, Oxford Co, Me.

I have been a subscriber to F & H
If year has swelled to 12 yrs and still F & II comes. But I have a greater interest, in reading it than 12 yr go. The farm that I used to mine coal under 12 yrs ago has been purchased by the coal uniner and I must blame f & H for doing it; that is, I were always reading farm papers. The way I came to first subscribe was through a neighbor getting up a club. I told him if he was one short he might set down my

TRY SWAMP-ROOT.

Test Its Wonderful Curative Properties FREE

To Prove what this Famous Ne Discovery will do for YOU. all Readers of Farm and Home may have a Sample Bottle sent Free by Mail.

It used to be considered that only urlnary and bladder troubles were to be traced to ne kidneys, but now modern science proves that nearly all diseases have their beginning in the disorder of these most important organs.

The kidneys filter and purify the blood, that is their work

The kidneys filter and purify the blocd, that is their work.

So when your kidneys are weak or out of order, you can understand how quickly your entire body is affected, and how every organ seems to fail to do its duty.

If you are sick or "feel badly," begin taking the famous new discovery, Dr. Kilmer's Swamp-Root, because as soon as your kidneys are well they will help all the other organs to health. A trial will convince anyone.

OTERIS TO HERITH. A TITLE WIRE CONVENCE ANYOTE.

Among the many famous cures of Swamp-Root inretigated by Farm and Home, the one which we publish
this month for the benefit of our readers speaks in the
highest terms of the wonderful curative proporties of
this great kidney remody. Mrs. Mary Homans, Manchesterf Sexas, writes: I write to let you know I am well
any back that I love to the transport of the work in
my back that I would strain from sern to ten times
time. Had to get up to fail up but a little while at a
time. Had to get up to fail up but a little while at a
time. Had to get up to fail the time are no ten to me
through the night; could size for the minutes at a
time; would wake so tired i could hardly and did n
ds, time, headache all the time. I could not keep my
mind on one subject more than a few seconds at a time.
I would forget what I was talking about. I sent for a
sample bottle of Swamp-Root, and since then I have
taken six large bottles purchased of my druggist, and am
as well as ever I was. I can't thank you enough for
the wonderful good your Swamp-Root did for me.
If gave Swamp-Root to my little a! I She could not
hold her urine. It cured her Seven bottles cured us
both. If you wish to print any of this letter, do so. I
remain your friend, and wish you success and lone, life.
May you find rest after your labors are finished."

MISS. MARIX ROMANS.

Jan. 4, 1900.

Wanchetter, Texas.

Jan. 4, 1900.

Manchester, Texas.

Weak and unhealthy kidneys are responsible for many kinds of diseases, and if permitted to continue much suffering with fatal results are sure to follow. Kidney trouble irritates the nerves, makes you dizzy, restless, sleepless and irritable. Makes you pass water often during the day and obliges you to get up many times during the night. Unhealthy kidneys cause rheumatism, gravel, catarrh of the bladder, pain or dull ache in the back, joints and muscles; makes your head ache and back ache, causes indigestion, stomach and liver trouble, you get a sallow, yellow complexion, makes you feel as though you had heart trouble; you may have plenty of ambition, but no strength, get weak and waste away. waste away

HEADACHE ALL THE TIME.

Kidney and Bladder Troubles Flake flen and Women



In taking Swamp-Root you afford natural help to nature, for Swamp-Root is the most perfect healer and gentle aid to the kidneys that is known to medical science.

BE. KILHEN SWAMP-ROOT Kidney, Liver and Bladds CURE.

This great remedy cure ideag, thur, birdder and I leid troubles and disorder to the product attention the binder, great the cure of the cu

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If there is any doubt in your mind place it in a glass or bottle and let it stand twenty-four hours. If on examination it is milky or cloudy, if there is a brick-dust settling, or if

can purchase the regu'ar fifty-cent