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durance to our brave, hardy sons of the l north, and richer bloom and greater freshness to our daughters. We have every hope that this hard, cold winter will be followed by an abin lant harvest.

"WOODMAN, SPAKE THAT TREE !" Farmers! we would give you a word of advice on the subject of trees. Similar advice has been given you before, but we are so apt to forget advices that repetition becomes necessary. Always in the busi spare some trees for snade and ornament as well as for future use. It is a very easy way of enhancing the value of your farms, and that, too, without expense .-We do not man merely allowing some acres of bush to stand for use in the years that are yet to come. This all farmers de when clearing their farms; but we advisyou, in addition to this, to let trees stand in various parts of the farm where they will be of most service for shelter—clumps and belts of trees. If ever your farm be to be sold, it will bring the higher price, and if it be not ever offered for sale, it will be the more valuable for your self and family. A belt or clump of trees, shading your cattle from the heat or the storm, or, it may be, sheltering your cropfrom the north wind, will pay you better than the culture of the little place they occupy. We must also take into account the fact that timber will be continually increasing in value, as the country becomes stripped of its forests. In the older settle ments it is now getting scarcer and dearer and this searcity and increased value musincrease with the increasing population .-As an instance of the rapidity with which forests are disappearing, we give you the following extract from a Pennsylvania paper:—"The forests of Pennsylvania are rapidly melting away. For ten years pass the consumption of timber to supply the numerous sawmills of Williamsport alone has been immense. The amount of leg ra'ted out of the boom for the present season will cut over 215,000,000 feet of boards. It is safe to assume that 300,-000,000 are annually manufactured at Williamsport. If we go back for ten years, we have the enormous aggregate of 3,000,000,000 feet. That this fearful consumption of the raw ma erial can continue for many years is impossible. Our mountains in ten or fifteen years will be denuded of every pine tree."

## HEALING GIRDLED TREES.

Take strips of good thrifty grown wood of the last year's growth, cut in suitable lengths, and fit them nice and snug into suitable places cut into the live bark, something like grafting, only my slips are cut square, and are set so snug that the ends crowd a very little at the top and bottom of the notches cut to receive them in the girdled tree. I then take strip of old cotton cloth well spread with good graiting wax, and bind it around the tree where the grafts are set in, and the work is done. The coh may reach above and below the place g.r.lied. I believe I have not lost any tree thus treated. Before I learned of this method I lost more or less every winter.

As a preventative I keep a good rat dog to kill the mice, and it does me good to see him pay off the little vermin. If the tree be large it will take five or six slips, or more if it i thought necessary.

I exam ned some of my trees the other day, and I found the stips grown to the size of two inc es in two years, and consequently the trees were almo thea ed over.

This method saves time and a new tree. which is a great item when a tree has been girdled that is large enough to bear two or tiree bushels of fruit. - M c hjan Farmer.

# EARLY PEAS AND SPINACH.

The seeds of peas and spinach germinate in the earth at quite a low temperature, and the plants will endure considerable frost without injury-hence they are among the first garden

crops sown in the open air.

As but little skill is required to grow peas, our city markets are liable to become overstocked with them, and the prices to decline below paving rates. But the markets g nerally open very high, and they who have a warm s il—s in ly or gravelly foam—and a warm situa-tion—descending towards the south, so that the rays of the mid-day sun fall almost vertically upon it, can make the growing of early peas profitable,

the early peas, but I think about three days ater than Carter's. As the ha im grows only 3 or 10 inches high, it can be sown in drills 12 to 15 inches apart, and the yield is immense. McLean's little Gem is more excellent than either of the o hers, and is specially to be commended for family use. It is dwarf, green in color, wrinkled and fairly productive.

These three sorts make a very good list of early peas for family use; for market, I would omit McLean's.—Country Gentleman.

### THE SWEET PEA.

A skillful cultivator of this flowering plant says that if properly grown, it will continue in bloom for months; that failure arises from poor soil, sowing too tinckly, and not allowing a well developed and nuxuriant growth. The soil should be as rich as for cele y, a trench dug, well manured, and the peas sown in small bunches a foo. part, or in a continuous row. To keep up the doom, the same course must be adopted as with many other plants, namely, the prompt removal of the seed pods as fast as they form, as the growth and repening of the seed would exhau. t the plants. I mening-in occasionally is useful. 5. me of the English gardeners, by a process similar to the preceding, keep up thowers from May to November.

### RAISING POULTRY.

See that the roost is clean, and have no openings excepting where the hens go in and out and glass window or two for light; keep the door ocked, and ave the entrance for the fowls only ou t large enough for the neaviest to creep in. mem to lay in, be numerous enough for at east four times the number you have, which will give room for them to lest at night unmo ested by the many quarrelsome dames to be ound in a score or more hens, and it will prerent so many hens wanting to use the same nest to lay and hatch out young in. If there are more than thirty hens in one roost, have another one made, above 100 yards away, and leave two or three roosters only with those left, as one fine realthy male bird is sufficient for ten or ffteen And do not have more than this number at one place if you have to contrive ever so many new roosting-places; then feed well, never heeding what some miserable old stingy mor als say to the contrary, giving them just as much m rn-ng and evening as they will eat up cleau. Feed early in the morning when you let them out of the roost, as they will them all at together, by scattering the corn or grain all around, for it is a lazy and foolish way to throw what you give them on such a small space as to have the master fowls fighting the underlings. Feed just before sundown, at as regular a time as possible, and nev r between times, unless in trost and snow, when they can get nothing on their range; then give them boiled vegetable food, such as potatoes or turnips, mashed wel and mixed with oatmeal or any meal ground from a different kind of grain from that which is fee her at morn or night Put . ggs nid r th. first hens which want to si , and mark them al. with ink, so that if any more should be laid to them after, they can be taken away, and this should be seen to daily-13 to 15 eggs, according to size of hens, will be sufficient for any hen to cover and keep wa m.

When the hens hatch their young brood, put them in warm little movable coops, so that the nen cannot drag them about in the coid and wet. Place these coops on some nice sunny bank, far enough apart to prevent the broods mixing, and attend to them every two or three hours, as in cool weather and so early in the season they require feeding often, and when storm + come on or it is very cold, the coops require cosing up so that it will be dak inside, and the hen will nurse them all the while. when the chickens are a month old, the hens can be allowed their liberty during the day, and when they commence to lay again, can go back to their former roosting place, the little ones using the coop till they are sold or taken to a roosting-place, which should not be with the old fowls, as they would get a deal of punishment from their roosting together—bestues which, as the weather becomes warmer, it is unhealthy to be at all crowned, and disease, lice and death follow in succession. The art or raising poultry is in giving them space us roosts and extensive ranges, and keeping the families small; then there are no limits to the numbers any one wishes to have, but any pointry fancier had much bette expend \$500 in the construc-tion of fifty roosts placed at a distance from each ther, to preve t intermixture, than to lay out \$1,000 in a fine paratial editics to accommo date the same number under one roof; and, say what any one will to the contrary, any one of the rifty little ten-dollar roosts would pay more profit than the great on sthousand dollar struc-

Turkey and Guinea birds should never be per mitted to enter the receting or laying depart-

But to raise early peas, we must not only sow them very early, on a warm soil, but we must ow the earliest varieties. There is a difference a time of maturing between our earliest and latest varieties of the correct of the common fowls, for they are quite as cruel in worrying and disturbing generally as Pea Fowls, which also should be excluded. Ducks require a separate place for their own good, as they get dirty by lying under hens at roost, and if they have a comfortable and common fowls. roost, and it they have a combination and com-venient shed with sing laying places on the ground, they will hatch out and raise their young better than by bothering hens, poor things, to sit extra time and dance attendance along ditches or around ponds.

Any youth who has premises of his father to commence raising poultry on and around shoul : look to the eggs as a source of profit equal to the chickens raised, and if he has seve ra separate roosts it would be good policy to have the perpetual laying varieties of hens at al. but one, keeping one lot to use for si ting and raising, and the others for laying.—Country Gentleman.

To Cause the Hais of the Mane and Tail to Grow. In reply to S. Chaiske, in the Rural New Yorker of Dec. 9th, I beg to give the following recipe, which I have personally proved to be a meient in rest ring a healthy growth of nair on the tails and manes of horses: Corrosive sublimate (hyd. bichioride,) oxymuriate of mercury, each four grains in one ounce of distilled water. Wash the parts where the hair is thin with warm water and soap, then rub dry with a linen coth and immediately after rub insome of the above liniment. If the hair has been rubbed off by the animal's own endeavours to allay cutaneous irritation, then dress with the following ointment: One ounce of fine flour sulphur, one ounce of pulverized saltpetre, made into a soft ointment with fresh butter or fresh rendere; hog's lard; rub in at night and wash out in the morning with warm water and soap; repeat three or four times. If the hair is scant from natural debility of the capillary a soft sponge; avoid all combing or brushing, and clean the mane and tail, as the Arabs downth a coarse flannel rubber.

### Never Prove False to a Friend.

Never prove fa se to a friend, In love and in friendship be true; Never prove false to a friend So long as he's faithful to you.

He may be dishonest; a knave In other's opinions; but then To you he is generous an to ind, And one of the noblest of men

Is any man free from each fault. All righteous and good in his ways! Lives there a woman so perfect on earth That she can be named but in praise?

Never speak ill of a friend, To gossippers keep closed your ear An excellent rule on the main, Is to credit the tenth that you hear.

Stand by a friend in distress, Wh n you know he is really in need; Heed not if he fails; none the less, There is honor for you in the deed.

That one may deceive you tis so-Then his, not yours the disgrace; Because we find one man untrue, Shall we wrong or d strust a whole race?

Censure a man for his faults. Give him honor, where honor is due : But never prove false to a friend, As long as he's faithful to you.

#### CULTIVATING WHEAT FIELDS IN THE SPRINC.

Many farmers have harrowed their winter wheat in the spring, when the soil was in proper condition for working, and the reports of such culture have been, in the main, favorable. England a machine is in use adapted to the working of the soil between the drill rows and sweeping the same breadth as t e grain dril'. Horse-hoeing is the name applied to this kind of culture, and it is, of course, more perfect than the work of a comm n harrow. It destroys weeds reaks the winter crust, a d if it does not of rectly benefit the crop it helps that following, inasmuch as it cleans the soil. Drilled wheat is in much better shape to be benefited by the use of a common harrow than that sown broadcast its roots are firmer and deeper in the soil, so that fewer are torn out and more dirt is worked up loose between the rows. The roler is deemed better implement by many of our farmers, and is more freque tly used on their wheat fields in the spring than the harrow. It is certainly a safe tool to use on the wheat field; it breaks the crust, presses the soil arm around the plants, and smooths the surface of the neld. The soil must, however, be quite dry when it is used.

In this connection we give the experience of some of the farmers belonging to the Elmira Club, in cultivating wheat in the spring and in been badly killed.

J. R. Conklin had a field of winter wheat much injured by heaving. In the werst spots when

the plants were apparently dead he dragged the ground up mellow and sowed spring wheat, and after harrowing in the seed, rolled all the field. All this was early in spring. The result was a good crop of spring wheat, and nearly as early as the winter wheat, and where dragging had lapp d on the latter it was evidently benefited. Have since dragged and rolled separate parts of the winter wheat fields, applying drag to the control improvement to the crop has always followed.

Mr. Conklin.—Dragging loosens the ground, and the roller presses into that soft ground the loosened roots.

Mr. Samuel Chapman.—Last spring I resolved to make a test in my wheat by dragging part and leaving part. I took out a thirty-two teeth sharp drag, and started it myself to note results. The first two rounds I kept watch of the teeth as they tore through the roots, II looked as though all were tornout. At the end of those rounds I raised the drag to see how much the teeth had gathered. It was surprising to see how little. I don't believe one plant in a hundred was torn up. So I concluded to trust my man for the rest of the job, but I instructed him to leave certain strips which were staked out, in order to make a comparative test. Now for the results. Those parts which were harrowed took on a darker green and gave evidence otherwise of increased vigor. They retained all their advantage over the undragged parts until harvest. I could not separate the narvest, and cannot therefore tell how much I was benefited by the work, but the advantage was very plainly in favor of the harrowed portions. The field the previous year had borne barley, the year before corn, and before that was a timothy sod. Some fear to undertake an operation which looks so hazardous to the crop, but I can assure you that if you will put your harrow on the wheat and drive it a while, and then examine the extent of the mischief, you will be surprised there is so little. I would recommend dragging as a sort of spring cultivation of winter wheat, on all pieces not troubled with many flat stones. On such the injury might outweigh the advantages.

Our own experience in harrowing wheat for two or three seasons has satisfied us or its utility. Our p actice has been to harrow soon after the ground was well settled and dry after the wheat nad commenced growing. Indeed we have har-rowed, as an experiment, the second time after the wheat was six or eight inches in height. It makes the soil in fine tilth, seems to give a clean appearance to the field and a thrifty look to the wheat. Of course this cannot be done where the ground has been seeded with clover without damaging that. We prefer sowing our clover seed just before the harrowing. It is then nicely covered in a good seed bed and escapes danger from late frosts which damage so much early sown clover.

## FECUNDITY OF DUCKS AND HENS.

Some interesting experiments have been made upon the comparative f cundity of ducks and hens, so as to determine from which of the two the larger number of eggs can be obtained in the same time. For this purpose three hens and three ducks were selected, all hatched in February, and nourished with suitable food. In the following autumn the ducks had laid two hundred and twenty-five eggs, while the hens in th s case laid none. In the following Febru-ary the laying season began again with the ducks, and continued uninterruptedly till August. They showed no inclination to sit and became very thin, but subsequently fattening up somewhat. In the meantime the hens had not been idle. The total number of e.gs laid by the hens amounted to two hundred and fifty-seven. or eighty-six eggs each; and the ducks produced three hundred and ninety-two. or one hundred and thirty-one each. Although the eggs of the ducks were rather smaller than those of the hens, yet they proved to be decidedly superior in nutritive material, so the superior-ty in productivene-s appears to be altogether on the side of the ducks.

## GAME HENS AND DUCKS.

A writer in the Canadian Poultry Chronicle and where there is a good wide range of any kind, no fowls will prove more prohiable, black-breasted red variety being the best. They eat little in proportion to larger fowls, and They eat little in proportion to larger fowls, and are very good layers; but they cannot be kept in close confii ement on account of their fighting propensities. No fancier that can find a suitable place in his poultry yard but should have a few ducks. Their appetite is such that almost any kind of food will supply them; they pick up the waste food left by other fewls and grow fat on it. In the barn yard, in gardens, and in pasture land they are alike useful and beneficial. There are three kinds which now stand high among breeders, namely:—Tha Av. stand high among breeders, namely :- The Aylesbury, which is pure while; the Rouen, which in color resembles the wild Mallard; and the Cayuga, which are pure black, accept ocea-sional white spots on the