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Miramichi, Monday Evening, March 20, 1843.

Agricultural Iournal.

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Pictou Mechanic & Farmer.

By permission of the author, we make the following extract from an able and interesting Lecture on Botany, delivered H. Poole, Esq., before the Picton Literary & Scientific Society, on Wednesday evening last. The remarks will be read with great interest by our Agricultural readers:

Every Horticulturist has heard of midew, and though it is often confounded with blight, honey dew, &c., the destructive fungi, which constitute the mildew, and the ravages they occasion, are unfortunately but to familiar too ever one accustomed to either a garden or a field. Notwithstanding this, even the most eminent Horticulturists know comparatively little, either of the nature of Every Horticulturist has heard of paratively little, either of the nature of this pest, or of its cure. One most imortant error exists respecting it, and this is, the belief among Gardeners and Agriculturists, that one kind of mildew will infect several kinds of plants; but this can never be the case. Each tribe of plants has a mildew peculiar to itself, which cannot, under any circumsances, effect plants of a different kind.

slances, affect plants of a different kind. Mildew generally appears on the leaves or stems of plants, in the form of ren white or black spots, as a number of minute projections; as a frosty incrustation, or as a brownish powder; in every case spreading more or less repidly according to its kind; and in its progress, withering the leaves, destroying the fruit, and finally killing the plant. The popular reasons assigned for this pest, are various: it has been ascribed Mances, affect plants of a different kind. pest, are various: it has been ascribed pest, are various: it has been ascribed to insects, log, and even, in our agricultural report, to the infiammation of the exygen gas in the air towards the end of summer, which scorches the leaves These opinions have, however, been all proved to be erroneons. Mildew is nothing more than different kinds of fangi or parasites, attacking different kinds of plants, and varying in appearance and species according to the nature of the plants which they attack. It is but the gardener also suffers from its severity. The fungi, commonly called mildew, are divided into three classes; all extreemly simple in their organization, and very minute in their form. The 1st class, or mildew composed of those fungi that live on the surface of leaves, injure a plant by preventing its respiration, but do not appear to draw any nourishment from it. One of the most compone of the face, which attack most common of the fungi, which attack the common cabbage, isCylindreaporium concentricum; these very destructive fungi have the appearance of small white apecks of frosty incrustation, which, when magnified, are found to consist of a namber of small cylinders, lying end to end, or across each other. These cylinders are all filled with seed, and burst when they are ripe, scattering it in every direction; wherever it falls upon the leaf, it takes root, and thur the fungus spreads rapidly. The 2d class of the scenery surrounding them. I do and stems, and are by far the most fatal, not mean that their dwellings are not usually sufficiently expensive. They have of generally appear in a sort of bag of the control of the scenery surrounding them. I do not mean that their dwellings are not usually sufficiently expensive. They have of generally appear in a sort of bag are often too much much so, and are of the scenery described by the great washed. Next, as near as may be in the centre of this acre, we will place a small plain white cottage, built not expensively, but with perfect neatness, and taste. The house being etected, we will next contrive to have our acre are of the work of the scenery surrounding them. I do usually sufficiently expensive. They are often too much much so, and are defined to magnification between them and the rest of the field.

And what ought to be? Let us sec.

In the first place we will mensure off at least one acre of land, as near as may be in a square, and enclose in front and at the ends with a plain, but neat light washed. Next, as near as may be in a square, and enclose in front and at the ends with a plain, but neat light washed. Next, as near as may be in the ends with a they close board fence, well white and the second white, and in the rest of the strength to the?

THE FARMER'S RESULTION.

I have often expressed surprise at the washed. Next, as near as may be in a square, and enclose in front and at the ends with a tleast one acre of land, as near as may be in a square, and enclose most common of the fungi, which attack this class. The mildew commonly cal-Pepperbrand is of this kind; and sumes the substance of the grain, leavames the substance of the grain, leaving in its stead only a dark powder, which is the seed, and has a very offen sive smell. It is a valgar error to suppose that the Barberry tree, if planted a corn field, will, if infected by mildew, communicate the disease to the corn dew, communicate the disease to the corn as the mildew which attacks the Barbery is quite different from any fungi

mildew furgi renders them still more numerous. The first class, or the superficial mildew, appears to be communicated by the air, the seeds, when ripe, being carried by it from one plant to snother, and establishing themselves wherever they touch. They destroy a plant by covering the surface of its leaves and thus preventing respiration. res, and thus preventing respiration. Plants are generally most affected by superficial fungi after a long draught, when the fibres of their roots are unable superficial fungi after a long draught, when the fibres of their roots are unable to imbibe sufficient moisture from the soil, and the plant thus becomes debilitated, and affords an easy prey to the parasite which attacks 11,—as a preof. Dr. Lindly mentions, that in coland, where there are heavy night dews, this fungus is unknown. The cure seems to be, abundant watering. The internal raildew evidently cannot be communicated by the air, since it always appears to spring from the interior of the plant, and to be at first covered with a thin skin, from which it does not burst till it is ripe. It is impossible, therefore, that this kind of mildew can be communicated externally; and yet the fact that it is contagious, is so clear as not to admit a doubt. The only manner in which it appears probable that it can reach the interior, is through the roots. The seeds when ripe, fall upou the earth, which becomes contaminated by them, and they are sucked up by the spongioles of the roots. Red plants are soid to be more liable to mildew than any other. Red is indeed supposed by some always to indicate a morbid action, as it shows that the plant is unable to absorb carbonic acid gas from the atmosphere, which is necessary to its perfect health,—at all exercise it is a proof of disease, when the plant is unable to absorb carbonic acid gas from the atmosphere, which is necessary to its perfect health,—at all events, it is a proof of disease, when leaves, or any other parts of a plant, not naturally red, assume that color. Steeping seeds in lime water has been found to produce the best effects in curing, or at least preventing the spread of internal mildew. There appears no cure for mildew in the roots, but by cutting a deep trench round the infected plants, and cutting off all comunication between them and the rest of the field.

oat apple is a familiar instance of this But I refer to that careless, slovenly kind; and the Ergot of Rye is also of aspect, which many, not to say most this class. The Ergot of Rye is also of aspect, which many, not to say most this class. aspect, which many, not to say most farm residences (costly ones too,) ex. hibit in their architectural appearance, in their location, their fences, the position of their out buildings, the laying out of the grounds surrounding them in the general absence of trees and shrubbery.

I am not aware that some readers will he disposed to regard this as an unprofitable and unimportant subject. Such persons will say that if a house answers the purpose of sheltering the farmer which are found in corn. The 3d class and his family from the elements, and attack are found in corn. The 3d class and his family from the elements, and attack the roots of plants, one kind atlacks crocuses, and is called Rhizoctonia its office, and that its looks are of no crocosome and is called Rhizoctonia its office, and that its looks are pride recocoses, and is called Rhizoctonia its office, and that its looks are of no cocoom; and in those countries where and deserving of no consideration. Such never do on any eccasion article of commerce, it makes persons are mistaken. Man's nature properly for the other faces a whole is such, that when his ficulties have the trees and shrubberg.

As soon as the trees a crop. The other fungus, Periola tor- received enough cultivation to raise him

vages are often attributed to grubs. All those kinds of fungi are very easily propagated from the rapidity with which they arrive at maturity, and the immense number of seeds which they produce. Most of the mildew fungi require only twenty four hours from the first springing of the plant to the ripening of the seed; and the number produced by each may be guessed, from the circums stance of one mushroom being sufficient to propagate two hundred and fifty million. The extreme minuteness of the mildew fungi renders them still more numbers. This first class, or the super-

a farm house, are very generally sacrifi-ced by the stinted plot of ground set apart for the occupation of the buil-dings, and for the yard. The house is placed about two rods from the street —a fence is then run from the two from

In cities and villages the price of land forbids the enjoyment of rural scenery, but in the country no necessity exists for being deprived of this lux-

Now I suspect that the man who talks the loudest of the vanity of bestowing attention upon such trifles, would feel vastly more comfortable, snugly enscorsed in a farm house, such as it ought to be, than in one such as it usually is. And what ought it to be? Let us see. In the first place we will measure off at least one acre of land, as near as may be in a square, and enclose in front and at the ends with a plain, but neat light fence, painted white, and in the rear, with a high close board fence, well white washed. Next, as near as may be in

as to make it almost resemble a grove, but not so near the house as to render be particularly careful not to permit any barbardian to subdivide our acre by means of cross fences, and thus cut it up into pens, that look as if they were made to yard sheep in. This would utterly destroy the beauty of our residence. Let us have an open space all around the house. On the line of our rear feace we will have our carriage house and other out buildings. At one end of the park we will locate our garden, and along the other end there will be filled with such shrubbery as my wife and danghters wish to cultivate. It will never do on any eccasion to turn an mals loose into this yard, as they will destroy

As soon as the trees acquire a mode | water to completely drained off, turn them

nentoda, is found on the potato, lucerne, above the level of the brute, he takes &c. It turns the roots, which are naturally white, of a purplish hue. Its raturally w how in contrast with the ordinary farm houses of the country! And yet such a residence need not be more expenive than those which are barren and desolate. Who would not prefer a bouse which cost only \$500, thus located, to one costing \$2000, situated as the first above described? How beauitful would be a farming country filled with such cottages? Will not some of our farmers who have occasion to build new houses. who have occasion to build new houses, who have occasion to build new houses, adopt the above plan? And will not some that have old ones, remove their fences and sheds, and hog pens and surround heir homes with natures living green? If they should be done during their absence from home, they would not know their residence on their return, or at least would suppose that some fairy had been busy with Alladin's lamp.

If any of our readers have any objections to the above observations, I should be glad to hear from them through the columns of the Farmer.

From the N. Y. Spirit of the Times. IMPROVED HORSE SHOE. BY AN OFFICER OF THE UNITED STATES ARMY.

ARMY.

I have been amusing myself for the last half hour in drawing a shoe that I have used for the last four years, and which I believe, would be universally adopted by those who would once use it. You will see by the drawing that the shoe is half the thickness at the beel that it is at the toe. The object to be gained is to allow the frog to come in contact with the ground. Many smiths will say this is absurb and that your horse will be lame in consequence, but it is their inferoal cutting and paring that causes so much lameness. They never allow the frog to touch the ground, and the consequence is that so soon as the shoe is off, your horse is lame because the frog is so tender. Let is lame because the frog is so tender. Let the frog touch the ground, and I will venture to say that 'low heels' 'narrow heels' and 'rotten frogs,' will be subjects no longer for the treatment of the veterinarian. This I know from an experience of five years. The nearer you can accommodate the shoe to the feet (not the feet tasks the shoe to the foot (not the foot to the shoe, as many are in the habit of doing) the nearer you bring the shee to perfection. You will perceive that the parts coming to the ground are, as it were scooped, out, forming an angle as near as possible with the concave part of the horse's boof, Thus when your herse's foot strikes the ground a curve arises under it corresponding with the bollow of the shoe (or foot) and it is impossible for bim to slip. Ha will not ball (a great con-sideration in a snow country,) neither will be cut himself, or "interfere" as they

If you think it be of any service you are at liberty to publish my remarks, though they are not as plain as I would wish to make them. I have used this shoe in bunting, travelling, working and all other ways and it is the only shoe I ever will use. It has no corks nor toe, but I have galloped a horse around a circle if 20 feet in diameter at near-ly full accord on the ice and he never slipped. ly full speed on the ice and he never alipped. The heads of the nails must project about the eight of at inch, be brought to a point, and hardened. I drove a horse from Chester, Delaware county, Pa., to Philadelphia in 1836, on the ice, shod in this way, and he never made the slightest slip-he was a horse too, that made his mile n three minutes. Another great advantage of this shee is that the mud and gravel will not form so hard in the foot that a lazy groom's patience will be exhausted before he clears them out perfeetly, as unfortunately for the poor animals, is two often the case, and nine imes out of ten is the cause of gravel.

Let your hunting subscribers try it, end and they will, I am sure, be repaid for their trouble. I believe the idea is an original one-at least it is with me-for among a hundred different shoes I have in my possession, not one approaches this in form-and I am convinced they do not in usefulness.

TO PRESERVE GREEN PEAS

To preserve green Peas for the table until Christmas, shell them and put them in boiling water, give them 2 or 3 warms enly, and pour them into a cullender-when the