HORTICULTURE.

Arrangements should have been made before now, for cropping the kitchen garden the ensuing summer, and a certain portion of ground alloted for each particular crop or crops. This would prevent much trouble and confusion throughout the summer. In all situations, and under all circumstances, it is highly recommendable to keep a cropping table and note the time of sowing, planting, and gathering, with remarks on each description of vegetable; this table would be of great value in pointing out the time of sowing in that particular locality, so as to have the crops come in at the time required.

We can testify the utility of a garden diary; but there is one consequence of such precision, which is not generally noticed, and this is the great knowledge of rotation, Which an observant amateur may thus acquire, and now, at this season, it will be well to commence a system of cropping. We require chemical analysis of plants and soils, to certify our proceeding, but in the meantime, order and routine will do a good deal, while scientific research advances. As a slight assistance for the time, the following suggestions are offered :--

"Never sow peas twice in succession, unless some autominal crop of broccoli has intervened- alternate freely with any of the cabbage family and with potatoes. The cabbage genius crop for most vegetablesswoad-beans, and kidney-beans may follow it—and all the spindle-rooted plants, come in well after potatoes not manured—the ground should be sifted to the depth of six inches for such roots.—Onions like a deep and well manured goil.

If berry-bearing shrubs are not yet in leaf, they should be regulated. Gooseberries do best on young wood, therefore, every bush should be so pruned as to retain a fair proportion of last year's shoots, and leave a balanced head, regularly arranged, cutting away a corresponding number of the old rough wood-spurs of two or three eyes may be left where, at the base of the small shoots, fruit is evidently formed; but the spurring system is not so suitable to this species, as to the currant, red and white; with these, it cannot be too rigidly practiced, observing to cut out all crowding shoots, and shorten the new wood at the summit of each retained shoot, to three or four eyes.

Black current trees, require neather spurring nor topping, but only to have old and ill placed wood cut quite away. Raspberries ought to have every reatamed rod shortened to a plump bud, just below the part where it takes a curve or bend; they then may be secured to stakes or trilles.

The first thing necessary to a garden, is, perfect dramage. Without dramage, unless the soil is very light, indeed, your garden will never prosper. Next to draining comes trenching—and trenching deeply—two or three spits deep, if the soil will admit. This, however, cannot of rourse be done in a year, but it may be done by degrees. A fresh surface is a matter of great importance in growing fire vegetables. Drawing and trenching is even of more consequence than manuring, as those will find who try the ex-periment. Ashes—decayed vegetables left some time in a heap to rot—and mixed with a small quantity of lime—soap water of the wash-tub-scrapings of roads-scouring of ditches, &c., may all be made use of as malality for animals bred by himself; and he lowing this course a few nure. The different qualities of soil can be lought frequently to use the stock belonging cured.—Maine Farmer.

improved by mixing with sand, bog earth, &c. It will greatly contribute to the excellence of the crops, that the surface of the while the plants are growing.

We have copied part of the above from The Mark Lanc Express, and in the future numbers of The Cultivator, we shall endeavour to give some information on the subject of Horticulture.

ON THE BREEDING OF CATT: E AND SHEEP.

The following letter on this subject we copy from The Mark Lane Express :-

" Many farmers consider as matter of indifference that on which the profitable nature of their occupation mainly depends. The worse breed the female is, the more this will be the case when she is put to a well bred male. Now, it is known to graziers, that the attempt to fatten an animal who possesses no feeding propensities produces loss instead of profit. The feeding propensities descend from the sire, and therefore it is quite just to say, that a breeder of cattle or sheep, who considers it a matter of indifference what sort of a male animal he uses, does consider it a matter of indifference whether he gams profit or incur loss.

The first thing to be considered in the selection of a male, are the indications by which it may be possible to form a judgment as to his constitution. In all animals a wide chest indicates a strength of constitution, and there can be no doubt that this is the point of shape to which it is most material to any breeder to look, in the selection of either a bull or a ram. The animal also should exhibit great muscular power, or rather that his muscles should be large. is a usual accompaniment of strength of constitution, but it likewise shows that there will be a good proportionate mixture of lean and fat in the meat produced by the animal;

In a bull there ought to le a full muscle on each side of the back bone, just behind the hough. It is sufficient to say therefore, that no male animal is fit to be used at all that the more perfect his snape is the better.

A man can only look at the general qualities of females he possesses; and observe what are the faults most prevalent among them , these he should be particularly careful to avoid in thele which he intends to use. All that a man can do is to avoid putting a male and female together, whose imperiections are the same, thereby increasing the fault already existing in his stock-It need not be said that those who turn two or three rams of different shapes and quanties into a field with all their ewes, without attempting to make any selections among them, have no right to expect to be successful breeders, and if they, do expect it, will certainly be disappointed.

There is one failing to which all breeders are hable, but to which the breeder of male animals, from the greater interest attached

to other breeders, and fairly compare its inerits with those of his own.

It will be advisable for the agricultural earth be often moved with the spade or hoc society, to circulate by all means in their power, all suggestions as shall appear to them likely to be useful to those engaged in the cultivation of the breed in this districts and although it may not be able to accomplish much beyond the influence of, its own mem ers, yet let it be able to trace to this patriotic body the introduction of those improvements, which will tend to raise the character of Flintshire agriculture.

> The last paragraph of the above letter is entitled to the attention of Agricultural Sucieties in British America. Here good can ba effected by them; by circulating useful information and suggestions among fara mers, than by cattle shows, were they held once a month. The greatest utility of such societies is to instruct those who require its in a good system of practical husbandry. It is true, those who they would be anxious to instruct, may not benefit by their instructions. However this may be; it is only when they have used their best endeavours to accomplish this most desirable good, that they will have done their duty, and expended the: funds committed, to their charge to the best advantage, for the community who have contributed them.

PAPER MANUFACTURING MACHINE.

The London Mercantile Journal gives a description of a new machine invented by Mr. Rawson, destined to produce a mighty and complete revolution in the paper trades This From this statement, it appears that the pas per, after being made and dried on the steam cylinder now in use, and wound on the reels is then taken to the sizing machine, and passed under the roller which works in the the muscles being that part of which the size trough; it then passes through metal meat is lean. A thick neck is, both in hulls rollers, which take off the superfluous quant and rains, a proof of the muscles being large, they, and wound on a reel at the end. The and there can hardly be a greater tault in operation of size parting is simply performs the hipe of a male animal, of either sort, ed by winding the paper when thus sized on than his having a thin neck.

This operation is extremely beneficial to the paper, and conducted with great rapidity, ten reams being size the top of the shoulder blades: he ought parted in as many minutes. The paper is also to have the muscles on the outside of then passed on to the drying machine, which the thigh, and extending down nearly to consists of a series of open drums with fans inside, moving at various speed, and fanning upon every part of the paper as it passes as a sire, whose handling is not good, and warm air, which absorbs the moisture in the size, and leaves the gelatine firmly attached. to the paper. A twelve months continual. working has demonstrated beyond all ques-tion the intrinsic worth of this invention. founded as it is upon the soundest principles. and carried out by the most beautiful, accurate machinery. Manufacturers, the most influential in Great Britain, have thoroughly tested it, and have not scrupled to admit that the principle must shortly be universally adopted by those manufacturers of machine-made papers who are desirous to maintain their position in the market.

TOMATOES CURE Scouns in Pigs.—This plant, the tomato, is generally at first disliked by many,—but it nevertheless is much cultivated and admired. Last fall, we had a pig that was taken with the scours badly. We tried various remedies for it with but to his occupation is more particularly liable, little effect. One day we threw over to it and against which he ought most carefully two or three tomatoes which was readily, to guard himself: this is, too great a parti- and which we found gave it relief. By foland which we found gave it relief. By folality for animals bred by himself; and he lowing this course a few days it was finally