Carrots and their Cultivation.

The carrot (Daucus) is a genus of the plants of the natural order (Umbellifere). They are mostly natives of the countries surrounding the Mediterranean Sea. The common carrot (D. Carota) is a biennial plant, common in Britain and most parts of Europe, also in the Caucasus. It is universally grown not only in Europe, the European colonies, and America, but also in China, Cochin-China, &c. The field cultivation of the car- | fairly seen, a drill cultivator should be run rot is carried on to a much greater extent in ! some parts of France, Germany, and Belgium tother will be sufficient, then take a sharp than in Britain or America; but it is increas- hoe, and pare the sides of the drills as close ing in both countries. The carrot appears to the young carrots as possible, walking to have been cultivated at an early period in backward-and paring half the drill on each Planders and Germany, and to have been in-side, so that the weeds may not be trodden troduced into the gardens of England in the beginning of the sixteenth century. The as possible. When they are well pared off orange carrot and its varieties are the most; thus, all the weeds left in the row (which common in England, but the large white and theed not be much more than an inch wide) yellow carrots are more esteemed on the continent; they are supposed to contain more; saccharine matter, and to produce a greater bulk of nutriment on the same ground. The white carrot will also grow on heavier soil. In this Province both kinds are grown, but the white seems to be rather the favourite variety. Though the carrot will grow in almost any soil, they prefer a light or rather sandy soil, and often succeed wellon a peaty ty one. The best crop of carrots I ever saw was grown on what had been a piece of a and any carrots that may have been left too cedar swamp.

According to Stephens, the nutritive matlbs.; of gluten, &c., 840 lbs; of oil or fat, do so. 200 lbs; and of saline matter, 800 lbs.

The carrot crop is deserving of more at-tention than it generally receives, as it is one they grow rapidly in the fall. and may be of the surest of our roots, withstanding, left in the ground as long as there is no danour summer drought better than any other, ger from frost. I have pursued different of our root crops.

in the fall, and if there is time subsoil it at the harvesting has been done in this way : the same time, as carrots delight in a deep, with a hoc, cut off the tops, and draw mellow soil. Then cross-plough the land in them off out of the way; then take a subsoil it is in order, and after harrowing and cultirequired to clean the carrots-so that they alongside the row of carrots, and then pull

the fall, we would drill up the land, and then as they do not grow at all above the ground run the subsoil plough up one drill and down like white carrots. But where the ground another as deep as we could, and then drill is stony, or there are stumps in it, or where up the land anew, so that the seed would be a subsoil plough is not at hand, I have never sown directly above where the subsoil plough found any better way than taking a common had run. There is a marked difference in plough, and going as close as possible to the the length of the carrot when thus treated, row of carrots, so as not to damage them. and when the ground is drilled up without and then pull them over to the ploughed any subsoiling. Carrots are often sown by furrow, throwing them in heaps, and leaving

hand; but if the seed is properly cleaned they can be sown with a drill, care being taken that the drill does not choke up. I generally use a light roller, attaching the seed drill to it, thus rolling the drill I am sowing, and the last one sown. In this way the seed is well covered, and the drills left fine and smooth. The carrot is a slow seed to start, so that the weeds are generally before them, and require to be checked as soon as possible. So soon as the young carrot can be through them. Up one drill and down aninto the fresh loose earth, but die as quickly will not hurt the young plants much, till they are sufficiently strong to thin out. In thinning and weeding them, use a small sharp hoe about four inches broad. It may be made out of an old cradle scythe, as by this means one can thin and clean them much faster than when all the weeds in the row are pulled by hand. After they have been thinned they ought to be gone through againsome time after,-hoeing out all the weeds thick. Carrots, like all other root crops, are the better for having the ground stirred freter contained in 25 tons or 56,000 lbs. per quently between the rows; indeed, they acre of carrots-consists of husk or woody | would be all the better if cultivated once in fibre 1,680 lbs.; of starch, sugar, &c., 5,600 a week or ten days, if time can be found to

Though carrots grow slowly at first, ways of taking them up, according to circum-In preparing the ground for carrots, the stances; sometimes when they are white carhest way is to manure and plough the land rots, standing well up out of the ground, the spring as soon as it can be done. After plough, with the side plate taken off, and run ground up in drills, say about thirty inches can be thrown into a cart or waggon without wide-not that carrots require so wide a any further trouble. If the ground is clear drill for their growth, as 18 to 24 inches and mellow, this is perhaps the quickest way. would be wide enough for that; but room is Another plan is to run the subsoil plough can be easily cultivated between the rows. them up and cut off the tops. This method If the ground had not been subsoiled in has to be pursued with orange or red carrots,

room to pass again with the plough. In this way they have to be pulled out of the way on the next row. It is best to plough two furrows for each row of carrots, one pretty broad, so that the furrow next to the row of carrots may be as deep and as close as possible. These have been the methodspursued on my farm; if there are better or quicker ways of taking them up, I shall be glad to hear of them.

Carrots, as long as they are growing in the ground, will stand a great deal of frost; but they should be secured as soon as possible after they are pulled, as they are then easier damaged by frost than the turnips are.

The principal advantages of carrots are, that they stand our summer droughts well, are very seldom injured by insects, make excellent feed for horses, cattle, sheep, and even pigs, and do not impart any unpleasant flavour to the milk of cows, as turnips do,but if the red or orange varieties are. used, they give a rich colour even to winter butter.

The disadvantages attending their culture are-their slow growth at first, so that if the ground is weedy, there is danger of their being choked as they come up; then they are slow and tedious to hoe and weed, especially the first time, over; moreover, they seem to be rather an exhausting crop on land; at least we never see the following crop as good after carrots as after turnips, mangolds or potatoes, in the same field. I have generally found carrots, when grown along. side of turnips and mangolds, yield a greater quantity from the same amount of ground, but they have required more time and work in hoeing and cleaning.

I have occasionally, as an experiment, tried sowing carrots late in the fall, but with no decided advantage. They grew well enough. but were harder to hoe, grew very little if any larger than when sown in spring, and were very apt to run to seed.

W. R.

COBOURG, March, 1869.

Ploughing Land.

There has been so much controversy on this subject, and such an immense difference of opinion, that one hardly feels justified in adding their mite to the stock of facts and theories already so abundant. Yet useful suggestions may fitly be advanced in view of the lessons taught by the introduction of steam power into field operations. Steam machinery has, during the past few years, done much to subvert some of the old established theories of the past century. Almost all the great steam plough manufacturing firms now universally consider the "grubber," as they term it (that is, an instrument not unlike a succession of cultivators, but much stronger and larger), one of the best instruments in existence to prepare fallow land for a crop. This machine is drawn by steam power deeply across a field. It does