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matter has been plowed under in light soils that land which is heavy, for it is naturally it tends to fill the interstices in the soil, and stronger than the light soil. in this way the avenues for the filtration of A third way is to grow green crops, and growing there.

place, the larger interstices allow the ground leaching out of the soil.

water downward are hindered. Vegetable plow them under. These may be various, for the fibre. It is sown with much care to a considerable estent, be removed from the matter, too, has much power to retain moist as clover, buckwheat, peas, and mustard, when thus grown, with reference to an even surface soil. In Farmer's Bulletin, No. 27, ure. When there is a goodly supply of it in Some of these are more bulky, and some of distribution of the seed in the soil. But, of issued by the Department of Agriculture in a light soil, and rain falls on it, the rain is them are less so than others. The more course, in such instances a fair crop of seed the United States, fall plowing is advocated, absorbed by the vegetable matter to a far, bulky of these will bring the most moisture, may also be obtained. However, the seed is followed by two plowings in the spring. But greater extent than it would be if the vegetable, but some are more capable of bringing fer- regarded as a secondary consideration. matter were not present in the soil. The tility. This is true of the legumes, and to moisture thus held is available for the sus- grow these green crops it is not necessary, as a both seed and fibre. Some hold to the view paring the land as given above. Nor would tenance of the roots of the crop which may be rule, to miss a crop of grain or of something that first class fibre and heavy yields of seed it be so favorable to the quick growing of the

Humus also lessens evaporation. In sandy quick soils. They push vegetation up but this does not always seem to hold true, for in the spring would be decidedly inju soils, destitute of vegetable matter, evaporal rapidly; hence, when one catch crop follows it is a fact that in some parts of Belgium, the growth of the flax in a dry season. tion is rapid. In the first place, the air more another, these may furnish a large amount of where flax is grown in great perfection for the easily penetrates the large interstices between humus the same season, and, while the green libre, it also produces good crops of seed. the particles of the soil ; and, in the second crop is growing, it prevents nitrates from

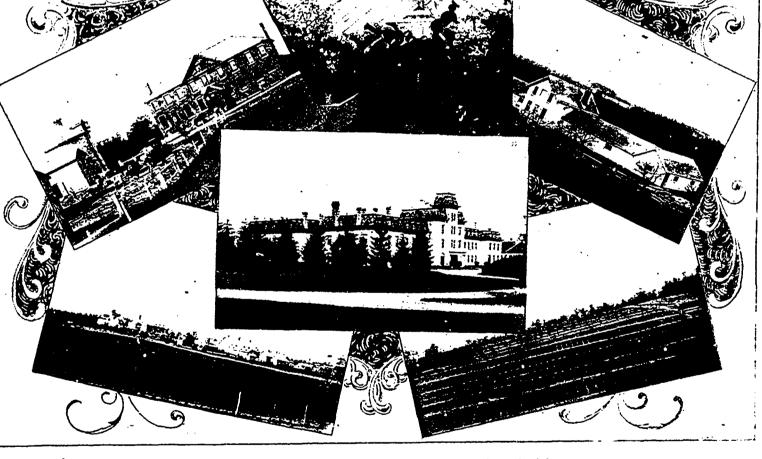
used for litter.

else. Light soils are what may be termed cannot be obtained from the same plants, flax. And on prairie soils the two plowings They push vegetation up that this does not always seem to hold true, for in the spring would be decidedly injurious to

Ordinarily, deep and well-cultivated soils nervous about getting it in too early. As with

should not be burned, it is otherwise only deep fall plowing early in the season, followed by surface cultivation in the spring until the By the second method, flax is chiefly grown sowing of the flaxseed. The weeds will thus, this would not prove nearly so helpful in By the third method, the crop is grown for destroying weeds as the other method of pre-

The season for sowing flax will, of course, depend upon the climate. We should not be are considered the most suitable for the culti- Indian corn, it is more important to have the



## Some of the Buildings at the Ontario Agricultural College, Guelph.

moisture to escape more rapidly. It is easy, then, to see the great mission that humus fulfils in light soils.

should not be kept long without breaking them grown for the grain.

on the farm has to go without manure, let it be the burning of the straw, and, even though it in growing the crop, we would recommend an important end sought, only the best quality

## Growing Flax.

The flax industry is one of no little impor-But how shall we get plenty of it in such stance in some parts of Ontario, and in Manisoils? In the first place, by growing grasses, toba growing flax is likely to come more and most favorable to the cultivation of flax. But, when the leaves of the trees begin to unfold. frequently upon them. It is usually easy to more into favor, owing to the great adaptativithout any doubt, the rich spongy soils of To secure fibre of the best quality, hand sow frequently upon them. It is usually easy to more into favor, owing to the great adaptaget a good catch of grass on light soils, when bility of that province for producing fine the weather is not very dry in the summer crops. In Ontario the crop is grown for the season. But they do not sustain themselves fibre as well as for the grain, but in the stalk remains short, while in those of a heav-use the drill. When the fibre mainly is as in heavy soils, and for that reason they Northwest it may be said that it is only

up. But they should be renewed frequently. Flax culture is found in three distinct A second mode is to add barnyard manure, forms. The first has reference to growing it and to be cateful to apply it as fresh as pos- only for the seed. In this form it pays well suble. When the manure is applied fresh, the in some instances, more especially when vegetable matter composing it is capable of grown on rich prairie soils, which can spare a retaining more moisture than when it is ap- portion of their exuberant fertility. But there plied in a decomposed condition. If any land is an element of waste in such instances, in

heavy clay loams, well drained, are among the quick growth, than to sow early and have the soils named in the reports of the United crop grow slowly, as it struggles with weeds. States Department of Agriculture as being the for the mastery. A very good time to sow is the prairie are also well adapted to the growth ing is considered preferable , but when the of the same. In dry, calcarcous soils the seed only is wanted, it is better probably to ier texture it is lengthened, but at the expense wanted, drill sowing is apt to produce a very of the fine quality of the fibre, so that where uneven size of stalk ; that is to say, some of the the fibre is an important object only clean stalks will in fine and some coarse, as the land should be chosen for the production of plants grow closely in the line of the row. the crop.

The preparation of the land for flax should secure a better germination. be very thorough. A fine seed bed is indis-pensable to secure the very best results. In be grown successfully for the fibre from a poor order to obtain the cleanness of soil necessary

vation of flax. Dark, rich, loamy clays, and ground in fine condition, and thus secure a But in dry prairie countries drill sowing will

quality of seed. Therefore, when the fibre is

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