## THE ILLUSTRATED JOURNAL OF AGRICULTURE

# The Illustrated

## JOURNAL OF AGRICULTURE

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MANGELS : DANIEL DRUMMOND.	0
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Fall manuring - Two Ploughings -	vince

CORRESPONDENCE :

Prof Saunders on seed-grain . . . 157

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Fal moisture in-Hoeing and singling No earthing up.

#### THE CULTIVATION OF MANGELS(1)

The soil best suited to the cultivation of mangels is a loam, either a clay or a sandy one; the clay loam will probably give the larger crop but will be a little more difficult to work.

Mangels are generally sown after a grain crop and the preparation of the soil should commence immediately after the removal of the previous crop. Our custom is to apply the manure to the land first, as we approve of manurung in the fall (2) for mangels; then plough lightly, say 5 or 6 inches deep and let it lie; during this time a great many wood seeds will germinate, so that when we come along with our second ploughing we kill them, this second ploughing may be as doop as possible say S to 9 inches deep and leave it turned up to the winters frosts to mellow it. In the spring, as soon as the kind is dry enough to harrow, give it a good harrowing to start some more seeds, leave it alone until it is in a thorough good condition to work, then it must be prepared

by a thorough good cultivation. If it is inclined to be clayey, this may be done by the cultivator, but if friable, by all means plough it again, but be sure and follow the plough with harrow and roller immediately so as to prevent a too rapid drying of the mil, as this is one of the most common errors made in the cultivation of a root crop and is very often the reason of a blankey crop 3). After the land is thoroughly prepared we drill it up about 27 inches wide but not too high roll the drills,

(1) Another of the 1895 Competion 155 Essays.

156 (2) Ou heavy land, but surely not on 156 light land. Ed.

(J) Very good indeed, Mr. Drummond. 157 | Ed.

and then sow your mangels in the top of the drill.

We have cound it a good plan to mix quick germinating sold with the s seed and have found turnip erv good for this nurnose, about per acre; mix before putting the nto the scaler, then if there hapto be any blanks in the mangel ill be very likely to have a turnip may be left.(1) The time of sowing be as carly as possible as they he whole season for growth. Sow 5 lbs of seed per acre. (2)

soon as the rows can be distincen, they should be side hoed, and when about 3 inches high should gled out to from 9 to 12 inches in the row, this can be almost all with the live. After the thinning must be kept thoroughly cultiby horse hoe and also by hand, about the middle of July when aves will be covering almost all ound; as to earthing up unless and is very flat and not drained not do it, as there is no benefit derived from it expect surface ge. (3) We have succeeded in s growing large crops of mangels foregoing manner of cultivation, op ranging from 20 to 40 tons per and without much hand weeding. excellent description of very good Ed.

# COMPTON MODEL FARM.

sit to that institution would conany reasonable person that the Spring preparation - Keep the directors of the farm have done a good deal towards making that establishment one of the best schools for giving young men a practical training and scientific knowledge of farming. With this end in view, the directors have made arrangements with Prof. John Ewing, of Melbourne, to give weekly lectures to the students of the school, and fortnightly in the Town Hall, Compton, to all who may attend. The butter factory connected with this institution has been a success from the very start, and the highest price has been obtained by the patrons for their butter. Still, the government, with the directors of the school, have decided to build a new creamery, of a larger capacity, with all the modern machinery that can be procured, and when complete, to rank as one of the best in the Dominion. The foundations are now laid and the walls built, with running water, so to be ready for operation by the 1st of May, 1897.

> In order to give to the farmers in the vicinity of Compton as well as to those who reside at some little distance from the creamery an equal chance to patronize the new creamery, the directors at their annual meeting held at the Model Farm on the first day of December passed the following resolution :-

> "That on and after 1st May, 1897, all patrons bringing milk to this factory, residing outside the following limits, would receive a rebate of \$1.00 per ton on all their milk delivered at this fac-

(1) But the main object is to distinguish the rows where the mangels will be and so get the horse-hoe to work earlier .- Ed.

(2) Good, agaln .-- Ed.

(3) Except in the extreme north of Eugland and in Scotland, earthing up roots is never practised ; and even potatoes are now hardly ever so treated. Why confine the rootlets that would travel in search of food if they could ? Ed.

tory, viz: West of Grand Trunk Railway track, East of Moc's River, North of the Waterville Road leading from the Charles Rae place, and South of the Belanger road."

"The Sherbrooke Examiner."

## FIRM COUNTRY ROADS.

## Easily Secured by the Use of the Scraper and Tile Drainage.

The progress made during the past few years in the improvement of streets and public roads has been as surprising as in other lines of public concern. By the use of alle dramage and of machinery for grading, the ordinary prairie roads are kept as smooth and tirm during the larger portion of the ver as the best macadamized streets of the cities. Perhaps no better implement has yet been made than the storl scraper in the form of a long blade carried at an angle suspended to a frame on wheels, corresponding to the running gears of a wagon. This machine is owned usually by a township and is operated by men and teams employed for that purpose by the day. The force necessary to operate it consists of two men and from four to six horses.

The prompt operation of a forge like this answers as the ounce of prevention and the pound of cure at the same time. The work is rapid and cheaply done, and if applied two or three times a year, the frequent dressing up prevents the wasting away of the road bed and maintains at the same time the smoothness of surface not obtainable in any other way. Two or three times round carries the movable surface towards the centre of the road. There are two or three methods in Illinois in force by which the funds for road making are expended. By a vote at the town meeting an assessment is provided for and the tax is invested in road improvement by the town commissioners.

Where no such vote is taken, the work is principally done by the poll tax, which cables people to work it out at their leisure and about as they see fit. By this plan the work is usually done in a slipshod manner. The roadmaster may be competent, but the work is not sufficiently under his control to enable him to systematize and use the labor which is legally available for such purpose to the best advantage. By the use of the same amount of ready money as may be represented in the poll tax, much better results may be obtained than can possibly be expected from that labor expended without any definite object in view. It is surprising to see what good roads and well-kept lanes do for a country in the appearance and the real value they bring to those who ere willing to devote some attention to the subject. In fact the character of the public roads is an indication of the character of the farmers whose holdings are tributary to them. The eides of the lanes should be kept smooth enough for the mower, which should be used as often as needed .-Farmer's Union.

## ECONOMY IN HAULING LOADS.

In a talk on good roads A. J. Johnson, a civil engineer who has done some very effective work in read construction hi New Jersey, gave the following rea-