#### The Illustrated

# JOURNAL OF AGRICULTURE

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## Teble of Contents.

#### THE FARM:

Farm-work for August				
Draining	2			
State of the crops Macfarlane on the	::			

# NOTES BY THE WAY ..... 29

#### COLD STORAGE:

Export of perishable goods ....... 30

# FARMERS' OLUBS:

County of Portneuf..... 31

## MANURES:

Notes on farming..... 31

### BEES:

Michigan Convention.... 32

### THE FLOCK:

Feeding lambs for market..... 32

### GARDEN AND ORCHARD:

33

44

Shade trees, M. Jack on	33
The charm of the country, W. R.	
Gilbert on	34
Pruning, Geo. Moore on	::4
Horticultural queries, Prof. Craig's	
replies to	35
Cements, &c	36
The garden of the farm	36
The San José scale in Canada	
Self-blanching celery a failure	37
An English kitchen-garden	37

### HOUSEHOLD MATTERS:

			•••
Advice .		••••	3
Recipes t	for drinks	• • • • •	5

A draws

#### THE DAIRY:

Expulsion of bad flavours	38
Judging dairy-cows	::5
Prof. Haccker's experiments	29
Had flavours traced to their source.	40

#### THE POULTRY YARD:

Gilbert on early moulting &c. ..... 42

#### SCIENCE:

Prof. Shutt on pure water.... 42

#### SWINE:

Breeding and management	••••••
Up to date lean-meat hog	
Pig viewed as pork	•••••
Champanh on the Danleshine	

#### THE HORSE:

The	Norman	horse	Chas. S.	Moore	
O	n				1
The	mare at	foaing	time		4
Man	agement	of for	ıls		4

#### THE ILLUSTRATED

## Bournal of Spariculture.

Montreal, August 1, 1857.

# The Karm.

FARM-WORK FOR AUGUST.

Harvest — Bands— Grain—Stubble-Cleaning-Stock.

The work for this month on a farm is and must be, governed almost entirely by the demands of the harvest. This year, the season is so backward that a good deal of the timothy will still remain to be cut, and the late sown oats will hardly be ready for the reaper till September. As for the root-crop, a good deal of singling and hoeing is finished In July, but the late white-turnips must not be neglected.

If the OATS are to be sheaved, we hope our friends at Sorel and other places have given up going into the bush to cut "des harts," or withes, to make bonds," as our Kentish folk call "hands." A couple of handfuls of the outstraw, neatly intertwisted, will do perfectly, as the sheaves should not be made too large; the lateness of the season makes it almost certain that there will be plenty of moisture in harvest-time, and every one can see that a small sheaf will dry after rain sooner than a large shout.

BARLEY, as we have often said in this Journal, if intended for the brewer. must not be cut till it is dead ripe. No hope of good malting barley on narrow ridges high in the crowns, as the grain on the lean flanks cannot possibly grow as fast on the maltster's floor as the gmin on the deeper soil of the crowns. Why should malting barley have three dews on it after being cut? Such is the practice in the S. E. of England, but we never could see the reason for it. That it should sweat in the stack is easily understood, as the grain is thereby mellowed, and the conversion of the starch in the process of multing expedited.

As soon as the grain is in the barn or stack, set to work on the vacant STUB BLES in preoparation for hoed-crops next year. If you have no grubber, use the plough; at all events break the stubbles up and get rid of the couchgrass, and other root-weeds, somehow or other. One day's work under the hot sun of August will do a world of good, and the following ploughing in October will set the work forward in a way that you will be glad of in the spring.

The STOCK will need about the same care and attention than they had in Look well after the sheep, and JIET. clip the wool round the fundament if the fly is troublesome. Smear the heads with grease and carbolic acid if the skin is broken by "boxing." If you intend to breed a few lambs for the Montreal duct as firmly trodden down as possible market, see that the ewes are in good I gave six inches by four inches as the that they have to be paid for with cash.

the earlier for it, and the number of twins will be increased.

The HOGS will be "shacking" in the stubbles towards the end of the month. Take care that they are well ringed, and that the fences are secure. Plenty of skim-milk and whey, we hope, after the wonderful rain-fall of the 12th and 13th of July.

Of course you will have plenty of green-folder for your MILOH-COWS this month. A rather curious instance of bad punctuation occurs in the last paragraph of our article on "Farmwork for July," in the last number of th, Journal, whereby it would seem that we recommended sowing rape and Hungarian grass in October for cows. The sentence should read: We have sown a mixture of rape and Hungarian grass for our cows in October; but of course any one who chose to take the trouble to think a little would see that the mistake was accidental.

As we said in our last number, never take the trouble to earth up corn, or root-crops, except potatoes, and earth the last up as little as possible. We see that this was recommended by a lecturer at the last meeting of the Dairymen's Association, but it is a great mistake. Why confine the roots of plants to 18 inches when they can utilise the whole 24 or 27 inches? It is a superstition derived from the days when the land in the dripping climate of Scotland was undrained. It never obtained in England South of Trent, where almost all roots are sown on the flat except here and there a few mangels.

LATHYRUS SYLVESTRIS.—The seen of this plant can be obtained at the leading seedsmen. M. Hamel, of Pont-rouge, writes to the "Journal d'Agriculture" to say that, though the alternate frosts and thaws of last winter destroyed almost the whole of his meadows and pas tures, the lathyrus sylvestris (gesse de bois) survived, and had begun to grow again. Sorel sand would suit this vetch well, or rather the plant would suit that soil and its farmers. We hear wonders of it from England and France. perennial plant that does well on the lightest sand should be a valuable acquisition, especially on such barren soils as the right bank of the Saint-Lawrence, a few miles before Sorel is reached, which we take to be the most hopeless bit of sterility we ever saw; we doubt if even the "Bad Lands" of some of the Western States can surpriss it in undesirable qualities.

## DRAINING.

(Continued.)

From what I have said as to the way in which water gets into the drains, it will be evident that to cover the conduit, whether it be of pipes, stones or bushes, with a mass of porous material, will be time and labour wasted. The wore thoroughly the duct is closed above the less likely is it to admatters, such as mit extraneous Sand and mud. My own practice, copied from the example of Mr. Parkes. the best draining engi neer of his day, has always been to use a reasonably small conduit (condensed or tightly nacked streams always run faster than free, broad streams); and to have the first layer of earth over the

for broken stones-because the materials will become compressed, in the first case, by the superincumbent weight of earth; and in the second, the return of the soil into the drains, however well managed, will always, more or less fill up the interstices of the stones. Icentue drainage, we always used 11/4 inch-Parkes used I inch, but at that size our clay would not stand drying without warping-and I hear from friends in England, that 14 pipes I laid in 1849 are acting perfectly now. It may seem curious to some, how so small a duct can run off a heavy fall of rain in 24 hours, as it ought to do. I cannot carry in my head the exact figures, but I remember well that the conclusion arrived at by Morton, inspector of drainage for the government loans, was, that a pipe the size of a lady's thimble, kept perfectly clear, is enough to carry off all the water that can fall on an acre of land during 24 hours. The object is, not to carry the water off with a rush, for that would, besides running the risk of choking the duct, draw along many of the most valuable parts of the soil; but to allow the water to sink gently and placidly through the ground, as the water acts in an ordinary domes-

As to the fall to be observed in drains in ordinary fields in tids province, any ele who can make a disch can be trust. ed to make a dram. I cannot help saying, that throughout the French-country the ditches are admirably made; and if the people in the Eastern Townships would take a lesson from the habitants in this art, they would be none the worse for it. In a learny soil on gravel, and in a black peaty soil, I have often seen a field of 10 acres dried completely by a four feet ditch at each side.

Where, however, there is a doubt about the level of the bottom of a drain. a few pints of water thrown gently in will often decide the question-where springs exist, their own flow will settle the doubt. The uniformity of the fall can be tested, if though worth while, by three levelling staves, two of which should be about 2 feet high, and the other extending, with cross-heads the inches long. One staff is held perpendicularly at each end or the drain, and the extending one is adjusted and moved up the drain; the head drainer, or runager, can easily see from one end whether the fall has been equally followed or not. But in practice, these accurate measures will seldom be found necessary : besides, I object (in toto) to a foot being set in the bottom of a drain. unless it is absolutely necessary. Some people are of opinion that the whole length of each drain should be bottomed out before the pipes or other ducts are laid. This is, doubtless, a correct practice during summer, or in ary weather; but when the land is full of maisture. I prefer placing the ducts and filling in, bit by bit, as the drain is dug: and for this reason-the caving in of the earth may, and most likely will, displace the sides of the drain, and it will have to be re-bottomed out-always a troublesome and annoying job, and very likely to be carclessly executed, unless the supervision be much more efficient than it usually is.

"Stone drains" are so expensive, on account of their necessary width, and the quantity of material required, cartage, etc., that I do not suppose many recople will make them. Pipes are, after all, the cheopest in the long run. The only awkward part of the matter is. condition; they will take the ram all size of the bush drain.-0 inches by six, The price here has always seemed to