## The Milusirated

Journal or agriculiture




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The San Jose scaje, Craig on. stubblerblerame this month, as the rape that el., are . zen to them, and the the trouble to sow. is in fu'i bxarin z. And here. we beg to $c$ ill the attention of all our readers to Mr. Macfainne's letter on our-pase. Ther will see how astonlshea that worthy correspontent of ours was at the sight of a real field of rape, with its 100 lambs at work upan it, and how surprised he was at the description the farmer gare hlm of fifteen acre place of that phant. So, it is not without reason that we have beeri for nearly 20 sears continually presilys upon the subcribers to this perionic:al G6 sized field of this nutton-mating gor for their sheep.
The ores intended to lamb down carly should now be getting into good condl-

## THE HORSE :

Horses of England. Ohas Moore on. io FARMEARS' OLUBS:

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## The furm.

FARM-WORK FOR SEPNEMBER.

The season is a very backward oue, a good dexil of the land in grater was uot sown till very late, aud, consogunatls, the work of OLDARING TILE STUB. BLES canuot be proceeded with until the midde of this month, when the sun can no louger be trusted to kill the couc: and other roat-weeds. In such a stite of things these encumes mu-t nocersamily be gathered at once, afier the grubber has bought thenn to tha surfoed, and burnt carefully, so as that not a single rootlot be left umiestroyed: the asties nay either be spreal where they lie, or, wheh is beiter, be stored ubder shulter till the spring, when they will came in 'very haudly for mizing with any loosea meal or other artificial manure for turhips, swedes, or magels. There sho 1 l be no delas in setting about this work as sson as the harvest is anished; fen things sare spring-work so much as cleawing the stubbles in the fall, parth cularly in heary land, as if the cleaning Is thoroughly done, and the first furrow for the root-crop is eiren before the froots, the grubber and the harows will sufficiently prepare the land for the reception of the manure, rendering the use of the plough in the spr:pr quite unnecessary. Every one knows that, on clays, the plougl has a tendency to produce clods, and, on sanals, to dry up the land: whereas, the grubber and harrow stir the land thoroughly, beep the tonsoll, finely pulverisel as it is by the winter's frosts and thaws, in its proper place, and retain the humidity need ed to start the seed into germination

THE FLOCK.-The care of the flock

## THE ILLUSTRATED

Sournal of Sogriculture,
Montreal, Soptember 1, 1897. for their dalls wage than thes did form.
erly. compelied aitention to means by which harger crops should be grown. and the principles upen which that Increase depended. It was neorssary. In the first place, to davde the land for considerstion into arable and pasture, vecause though the treatmeat in some detalls were identical, there must ine a modification of some of thera. Tate draining. as ti.e tirst cssential. common to benth. before any improvencot could be made. No practimal man woud think it necos sary to drain pasture land so thoroughly as tiey wo:ld do arable lind, bocause the antural anait of grasses were to re. quire wore moisture for the production of leaves or berbage, than crops grown on arable lard for seed purposes, sach as corn crops. But large as was the quantity of woisture required bs grase: land, it was also clear that some outlet must be made for the circulation of the water, or else stasnation ensued, and a deterionation of the herbage consequeut upon it took place. Water grasses and mosses tonk the place of the beffor Linds. The conditions for the proper and rigorous gromth of grasses mere exactis the same as those for growing all other kinds of plants. Thes required warmith and air and molstmre. It did not necessarily follow that becaus: Iralnige was necessary to ensmre eirculation of water, and thus the circulation of alr and marnilh were ensured at the same time, that draining shonld be deep and costly, arod in the class of land that these rales had, would be utteris
dge or pastures that strould be attembed to, and was, he thought be might say. absolutely aeglected. Nowhere had be vern pasture latel surfuce-gripped, as it , ught to be at latervals-a plough rus sowa the low jhaces. Outtlus a marrow trench, about two fachess deep and three noches wide, and comectang these trenches with a main chaunel into the nea:est liteh, would bave a marked effect h.ut only in amproviag the herbare, but also in hastening the early growth in the spring by making an oustlet for the surfuce water, whirh now could not es. cape except by evaporation, and by that vers process lowering the temperature of the grasses often to frepoing polnt. In arable lasd the question of dratuage was, of course, paramount, and vo money was so well latd out as on this work, but in thls, the modern idea of cepth was opnosed to that held when druming was tirst imented, and mothing less than from three to four feet was :inought admissable. This erroneone depth was thought necessars, when it was supposed that phants required a cousderable depth of soll to as.able their roots to descend in search of food; but modern knowledye showed that roots of plants got their chief sustonance from the suaface son, and tats probably withmit excoption. so that drams fron: $21-2$ to 3 rect deep answered all purposes. The next. and probably the most important iten, was the recumulation in lacel of the fibrome roots of piaits, commonly know: under the name of turf. The higt pressure of contimunas cropping was no doubt respousible for the loss of one of the most raluable mateI ials for the support of plast life. No land that was full of decaying vegetabledatter could be consilened to be in an exhensted state, and no land without It couid bear naximum crops. He was now alluding to the natural decas of the roots of plants. but under the head of decaymg regetable matter, they must inclide farm-yard manure. The chief value of farmyard anaure, and an a great many cases the only ralue was tue to this doenring regetabie matter that it contalned, and whill acted mechan:cally in not enls keepine the soil open, and allowidg the ald to permeate tirough it. but also, in decounposing, it raised the temperature of the soll. aed thus materially assist in promoting the sermbation of the seed, and alsn ancournged the growth of the plam. If a sufficience of manure could be made on a farm to dress the amble land ceere sear, the question of the maintenance of rertility would be solfed, but as a :Datter of fact, with few exceptions, it was quite impossible to do this, and so recourse must be had to other means whereby the " ars," or they might call it the "staple of fertllity." was maintalned. This was of comren done by the s.stem of cropping. when the remporary seeds took their place in the rotaton, and the true principle seemed to lie in so prolonging the srowth of these seeds that the inaximum of root growth shonld be attained. The sarbe end appeared to be attainal by the stowta of any green crop, and then elther feeding it of or plonzuing it ander ; bat neither feeding off the crop vor plourhing it wader foula rully attain the end thes bad in Fien. Thie reason whr the obialnigs of turf in hani was sn all important was, first becanse of its mechanical action, spmilar to farmyard mannef. in aiding in the fircuiation of sir tarough the soll, and in ineressing Its temperature: but seconills, and of equal importance, was that in the deiomposilion of the reactable malter.

