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Gives Satisfaction Everywhere.

Angus Mackay, Superintendent Experimental Farm, Indian Head, Assa .: "I do not at present know how you can make the 'Farmer's Advocate better than it is. It gives satisfaction everywhere."

The Remount Question.

The ventilation of the scandal regarding the purchasing of army remounts for the motherland, which took place recently in the British House of Commons, may be productive of good to Canada. During the discussion, Secretary of War Broderick stated that 446.088 horses had been purchased, of which 77,101 came from the U. S., and 11,364 from Canada. M will at once be noticed what a small percentage of those horses came from Canada, and of that number only a few thousand came from Western Canada. Only a short time ago the "Advocate" chronicled the statement of Mr. J. D. McGregor, of Brandon, descriptive of the class of Montana stock he saw being purchased for the British army, mere cayuses at \$10 apiece, for which no veterinary examination was held. In marked contrast was the purchase and stringent examination of what few were bought by Col. Dent in the West. The European purchases seem to have been an opportunity for a rich dip into the British treasury, and, from information the writer has at first hand from a prominent Chicago veterinarian, the same has been the case to the south of us. That gentleman was offered the job of inspecting and passing a large number of these horses (of course, they were all to pass), but refused, as it was a job which savored strongly of crookedness. He had witnessed a large number of such horses passed some time before, and, while not expressing any sorrow, said "it was a fat thing for the contractors, and a big steal from the British Government!" The following letter in the Toronto Globe, of recent date, gets at the kernel of purchasing army horses in Canada:

ARMY REMOUNTS.

To the Editor of The Globe: It is not altogether pleasant reading for Canadian farmers that the "English War Office is buying 10,000 horses in Prussia for use in South Africa." I see it is also stated that "American contractors for the War Office are purchasing remounts right along the British Columbia frontier in large numbers, while the British officers examine a great number of the same sort every day just ten miles further north, and now and then condescend to pick out one or two from a fairly large mob." I submit that other but equally fastidious gentlemen are perpetrating exactly that ort of folly in Ontario. Instead of taking what serviceable animals up to general specifications are offered to them in Toronto and elsewhere. they go on as if they were judging at a horse show, criticising a horse's ears or tail, saying his back is an inch too long for symmetry, or that he is calf-kneed or goes too wide behind. These and similar fanciful objections, which would make the Boers laugh, are the reasons for thousands more horses not being shipped from Ontario. Is not about time to call a halt in this senseless node of procedure? Should not the Minister of Agriculture for this Province, himself a good udge of what is wanted, make representations to the War Office, with a view to having all this tombiolery stopped? A Canadian dealer, gifted with ommon sense, free of War Office red tape and of English fads and prejudices, could deliver in two onths at the ship's side more horses, then the Linglish officers have bought in two years, exeras suitable for the survice to be rendered to to and in the aggregate quote as good lookage lot. The difference of the two systems was it trated when the horses for the contingent just

started from Halifax were bought by a Canadian contractor, What is wanted in the English system is a rather more liberal use of good temper COMMON SENSE.

Many Westerners ate humble pie, and to little purpose, because it was duly impressed upon them by various officials that if the British purchasing officer was favorably impressed he might be induced to buy horses out West again and again. The annual ridding of the country of the type of horses termed army remounts—the missits of horse-breeding-would certainly be a good

In this connection, the "Advocate" has steadily advised its readers against attempting to breed the army horse; such a horse results from our efforts at breeding only too readily. "Breed the best possible and dispose of the culls!"

Hon. Mr. Fisher could doubtless draw the attention of the British Government again, as he has managed to get them to buy large quantities of grain, flour and fodder, and the supply of horses of the army-remount type in the West is a large one, all statements to the contrary notwithstanding. As proof of this statement, 80 horses were picked up in the vicinity of Brandon in a few days for the last contingent

Why Does Loose Soil Produce Rank Soft Straw !

Our failures, as well as our successes, have lessons for us if we will but learn from them. Λ noticeable feature about last year's crop in many localities, especially in the eastern part of Manitoba, was the extraordinary growth of rank soft straw, much of which was badly rusted and which lodged badly and did not produce the yield or quality of grain promised by the early prospects. While in many sections wheat was affected by this softness of straw, the oat crop was most seriously damaged, in some cases ruined. While late sowing and indifferent preparation of the soil had much to do with these conditions, we must look the matter with regard to the dilatoriness in for other reasons. A neticeable fact is that on loose, mellow soil the straw was more rank and soft than on firmly packed soil or on the heavy

The eastern portion of Manitoba, from the Pembina Mountains and Portage la Prairie eastward, was visited during the growing season by two weeks of excessively hot, moist weather, which was not so marked on the higher lands westward of the line indicated, and the further westward the less these conditions prevailed. Just why such hothouse conditions of the weather should produce a rank soft growth of straw on loose soil and not on firm, well-packed soil is a problem a complete answer to which would lead to a better understanding of the principles of soil cultivation. In endeavoring to find the correct solution we have consulted some eminent authorities, as quoted below

To the Editor "Farmer's Advocate"

Replying to your letter, will say that it would hardly be prudent for me to give off land an explanation of the conditions to which you refer without knowing more details than you could well give in a letter. If your lands are exceptionally rich and there is a tendency to maintain generally an almodance of soil moisture for the crop, the lease confliter, as compared with the compared one could have the tendency to make the moisture to further and we much to the conditions that popular on with a most eason which i other refuses to be corp production. ed be grant for the state of th the state of the decelor money of a large and the second money as any strength of the second seco

the stem. On the other hand, if such rich soils are left firmer, so that more moisture is lost by evaporation, your crop is brought nearer to dryweather conditions, less straw is developed, less shade results, and you have stiffer stems with (PROF.) F. H. KING. more grain. Director of the Division of Soils, Department of

Agriculture, Washington, D. C.

To the Editor "Farmer's Advocate":

Your interesting letter received. It presents to me, for the first time, information regarding the effect of rolling upon the growth of straw and yield of grain as existing in Manitoba and the Northwest Territories. This is evidently a very important question, and I should like, if possible, to be in possession of further facts respecting it before deciding as to the cause or causes of the phenomena you mention. As an interim opinion, I might say that the ranker growth of straw on the loose land is possibly due to a larger amount of soil moisture and its concomitant of nitrates. You will remember that our experiments at Brandon and Indian Head last year showed that the fallowed land contained much more moisture than that which was not fallowed. (See Report, of Farms for 1900, p. 154.) If this is the explanation, I should expect that the rolled land would give the better results when a dry season prevailed during the germination and early growth of grain, and that the loose soil would be more satisfactory when this period was excessively wet.

The ranker growth of straw and softer grain are no doubt the result of a too vigorous and too prolonged vegetative growth, brought about by the conjunction of a soil rich in nitrogen and an excessive amount of moisture, which latter may induce, if the showers be intermittent and the weather hot, a large production of nitrates. This would delay the maturing of the grain.

Rolling has the effect of "firming" pacting the loose soil, and so rendering it more suitable for the germination of fine seeds. It, further, tends to increase the amount of water in the surface layer by setting up capillarity, which favors the drawing up of the moisture from be-This, it will be observed, does not mean any distinct gain in moisture to the soil, but merely a transference to the upper or surface layer from the deeper portions. A more rapid evaparation sets in after rolling, and, therefore, it has been recommended that a slight mulch be formed by lightly harrowing with a chain or brush harrow, thus preserving from loss the water drawn from below by compacting the sur-(Sgd.) FRANK T. SHUTT, Chemist, Exp. Farm.

To the Editor "Farmer's Advocate":

I am not able to explain the reason why grain does not turn out as well on loose, unpacked soil as on firmer land. I have often thought the reason was on account of there being so much loose soil on top that when a dry, hot spell comes the heat and wind strike down to the roots and the grain does not fill. Loose soil induces rank growth and this induces rust when the weather favors it, which, of course, is against large yields. This year in this section some of the big yields have grown on loose fallows, but after the grain started to grow there was no check until ripe, and it filled perfectly, even when the growth of straw was extra rank. Some few fallows were lodged in places and rust injured the grain somewhat, but, except these, the grain was as good on loose soil as on well-packed. I have always been against two plowings for fallows, for the reason that it induces too rank growth, which is liable to be frozen, struck with rust or some other drawback happen to it, in addition to bringing a lot of weed seeds to the surface ready for germination.

ANGLS MACKAY, Superintendent. Indian Head Experimental Farm.

The importance of a firm at I Svery evident a mand season to prefer to execute growth of trans, with its consequent tackency to rust and ladge, and in a dry season to assist in the re-