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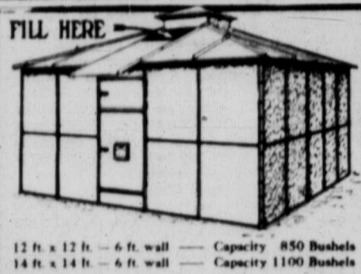
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**Winnipeg Steel Granary
and Culvert Company Ltd.**

Dept. 11
WINNIPEG, MAN.

SEASONABLE REMINDERS

Unfortunately there are in every community some farmers who are absolutely indifferent to the rights of their neighbors and who are a constant drawback to the general development of the district as a whole. Every year complaints are made concerning the damage which scrub bulls do when allowed to run loose over the countryside. Many of these strays are yearlings that some shiftless man is too negligent to castrate, while some farmers are so short sighted as to actually keep scrub bulls for the purpose of breeding from them. There is absolutely no license for scrub bulls being allowed to run loose. They are a menace to the production of pure-bred stock and act detrimentally to the whole district in that buyers do not come where scrub bulls are allowed to run loose. D. B. Howell, of Langenburg, a prominent and progressive dairyman, says concerning this question, that "scrub bulls are a menace to growing heifers. Yearling heifers come in season as good pasture comes, are bred on the prairies and then calve early the next spring when the heifer is in her very lowest condition of flesh and thrift. As a result calf and heifer do not do well. To raise the calf with such a start stunts the heifer and detracts \$25 from her value as breeding stock. This amount I consider low in grade stock, but to have a little yearling of pure breeding get in calf from such a bull entails a loss of \$100 at least."

"The remedy for this situation lies with the municipal councils. They pass by-laws governing strays and prescribe penalties. Then, again, this nuisance could be largely done away with if men had enough backbone to run such scrubs into the pound. The reason it isn't done is that a man is afraid of making an enemy of a neighbor. I consider the man no friend of mine who permits a scrub to run at large and damage my stock."

The question of offending neighbors should never enter into consideration in this matter. Scrub bulls should not be used by farmers on their own stock. Either the provincial department of agriculture or the Dominion department if written to will make it possible for a pure-bred bull to be placed for service in any district, and farmers are not taking full advantage of the opportunity afforded them if they do not make use of this offer.

Try to use pure-bred bulls yourself, and pound every scrub bull that is allowed by a shiftless neighbor to run loose.

There are lots of jobs for wet days. Mowers and rakes, racks, hay forks and later the binders ought to be gone over thoroughly and fixed. Get the mower knives ground. Have a look at the ledger plates on the mower cutting bar. If any are worn smooth and dull, replace them. Clean out all the oil holes and pour in a little fresh lubricating oil. Tighten up all loose nuts.

Fix up binder canvases. Replace all broken slats. A little extra time spent in fixing during the slack season before harvest will be more than repaid after cutting starts.

During the hot weather, particularly, horses in the team should not be tied together bit to bit. With flies bothering there is bound to be a lot of head shaking and if tied together in the above mentioned manner, sore mouths and even split tongues are bound to result. Tie the outside horses to their team mates' hames and cross the tie ropes of the centre horses to each other's hames.

—E. J. T.

ENGINE TROUBLE

Of the many ways in which the ignition may give trouble, only one, the improper timing of the spark, will be considered now. When an engine leaves the factory, the ignitor trip is adjusted so that ignition takes place just a little before the end of the compression stroke. This little may vary from ten to forty degrees, or even more, according to the rated speed of the engine. The ignition should occur just early enough to give the gases time to burn and thus be ready to expand with



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Don't waste your money buying stock food in pails. Just get a package of common, ordinary Donatone from your druggist and mix it with sufficient chop to make a full pail of stock food equal to any you have ever bought for three times the price. Donatone is put up in two sizes; full size, One Dollar; half size, Fifty Cents.

Most druggists keep it, but should you be unable to obtain it locally, the makers, THE PRAIRIE CHEMICAL CO., WINNIPEG, will gladly send it to you on receipt of price.

WHEN WRITING TO ADVERTISERS PLEASE MENTION THE GUIDE

full force when the piston starts back on the power stroke. If ignition takes place later, the gases do not have time to properly burn before the momentum of the fly wheel moves the piston out and the force of the expansion is largely lost. Little power can be obtained from the engine under such conditions.

Too early a spark will cause the gases to expand before the engine reaches dead centre, causing the gases to actually work against the motion of the fly wheels. This is detected by pounding in the cylinder.

The exact position must be found for each make of engine. For an engine rated at 400 R.P.M. the spark should occur about fifteen degrees to twenty degrees before the dead centre. When an engine has been used for some time the ignitor trip may have worn or slipped from its original position. Re-adjusting this by sliding the ignitor trip clamp a very short distance will often cause the engine to develop 25 to 50 per cent. more power.—E. R. Gross, Colorado Agricultural College.