UNDED 1866

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#### STEINS.

another cole year in Holmplete disperand high-pro-Ruby, and the b Leuzler and k, Ont., which e big, covered ednesday, Dec. the Holstein familiar with f these noted and as recordthe foundabeen continuest producing of late years, ng the breedbred in the l States, and of the breed, ecessitated a em, have been e females in and R. O. P. them are in vith their rich ng ability, is lity, many of animals. In short resume g and producll particulars, No, 1, Bright,

The Road CAFETY to the horse

**NOVEMBER 20, 1918** 

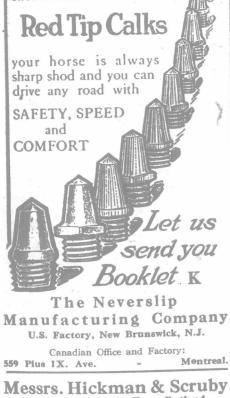
**often** means safety to the driver.

Where dangerous, slippery roads are to be encountered it is essential to have the horse surefooted.

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are easily adjusted by anyone, without delay. They make the horse sure-footed and dispel the terrors of icy roads.

No more danger of injury to the horse or damage to wagon and harness. No more vexatious delays due to unsharpened horses. With



# THE FARMER'S ADVOCATE.

## Questions and Answers. Miscellaneous.

### Well Drainage.

1. I put down a well this summer; it is forty feet deep and one - foot hole, twenty feet of clay, ten feet of dry gravel, and ten feet of quicksand. The caisson is one-inch hemlock. We put the pump in and pumped it down considerably, then the quicksand started to come It acts the same every time until up. it has nearly filled to the gravel. What would you advise me to do, as there is plenty of water ?

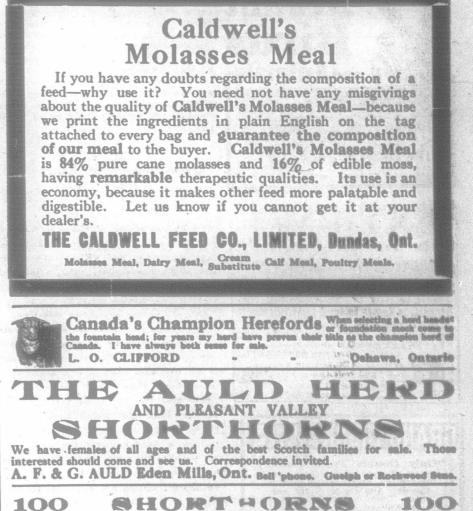
2. Would a sand-screen be satisfactory? 8. I own a farm, lot 15, con. 10; A owns farm, lot 15, con. 11; B owns farm, lot 16, con. 10; C owns farm, lot 16. con. 11; sideroad between lot 15 and lot 16. My lot is lower ground, and all this water runs on me; also the water from the sideroad and concession. What is the proper course for me to take, as I wish it drained? The farm below me has a large gully, starting at our line. W. G.

Ans.-1 and 2. The problem of securing water from quicksand stratum is rather baffling. Not long ago I received a query from a private correspondent relating his difficulty as follows:

"My well was dug about ten years ago, 43 feet deep, and curbed with wood put in horizontally; about 5 feet across; no water there worth naming; bored down with post auger 15 feet further, struck water in fine sand, put 6-inch tube 20 feet long in hole, and pumped sand and water out until tube settled 5 feet. Put in 13-inch sand-point and connected pump; got little water. Put in similar point 2 feet away and connected pump to both. Got nice supply for years, but small stream water failed; took out points and found them corroded and filled, admitting no water. Got new sand-point 8-inch pipe, 8 feet long 820, 7-16 holes covered with No. 55 strainercloth, re-covered with perforated copper. Still a failure. Use pumping mill. Can you advise me how to get the water separated from the sand and raised 65 feet to the surface. No doubt as to supply of water."

I took the matter up with a company which has been manufacturing and installing well-points for many years. Their reply is as follows :

"Our own experience is that water cannot be successfully produced from quicksand bed, for the simple reason that sand will run wherever water will run, and the only way we have known successful installation in such a position was where a pipe was run down through the sand to a coarser stratum below the quicksand, and then there would be no difficulty about this point keeping out ordinary coarse sand and gravel, but as above stated, quicksand would go wher-



IN OUR HERD



2039

#### RTHORNS.

lardale Stock ule, M.D., of large herd of ondition, and dividual excelg an immense n. Imported are daughters several are Others repliss Ramsdens n their sire's ell - bred and Imp. Choice e, and Imp. ned being the two-year-olds, sired by the hooks, a son Fame. Now the Rosebud-911, a roam , dam Spicy This is a exceptional well with the ding females of show-ring strong comdozen heifers rs of age, of that are for rom, seven to by the Broad-, under the s, are in nice

Court Lodge, Egerton, Kent, England. Exporters of Pedigree live stock of all descriptions. Illustrated catalogues and highest references on application. We are doing a very large business in draft horses of all breeds, but especially Percherons. and we are offering unsurpassed values. All over the world there is a shortage of wool and mutton, sheep will go higher, and we solicit orders for show flocks. Our prices on big bunches of field sheep will surprise you.

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Please mention "The Farmer's Advocate."

ever water will.

This would seem to indicate that you are not likely to succeed in getting a satisfactory supply of water unless you can go deeper and strike a coarser layer of sand or gravel. It may be, however, that some ingenious reader of "The Farmer's Advocate" has succeeded in solving the difficulty, if so, I should be personally glad to learn his experience. 8. Undoubtedly, parties living on the higher and should contribute something towards constructing a main through your farm. The Ditches and Watercourses Act would seem to apply, and it says the engineer shall assess the various parties according to their respective interests in the ditch. One's interest is measured in several ways: 1. According to direct benefit. 2. By providing outlets for drainage of lands higher up. 8. By injury that may be done to the low land by causing water to flow on it from the high land.

I would suggest that you first try to come to an agreement with your neighbors, each one agreeing to do a certain proportion of the work and pay a certain proportion towards the tile, if it is a closed ditch. If you can't come to a settlement, then the only way for you to secure the assistance of those above you is to proceed under the Ditches and Watercourses Act. The first step under this Act is to serve upon the owners a legal notice, according to the Act, that a meeting will be held on a certain day, at least twelve clear days after service, to consider the proposed drain. The Act

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