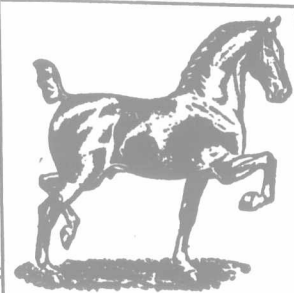


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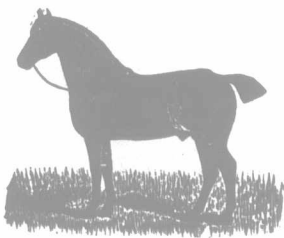
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QUESTIONS AND ANSWERS. Miscellaneous.

CHIMNEY LEAKAGE—FARM MANAGERS—LUBRICAT- ING WINDMILL.

1. A chimney built in end of a house gives trouble in winter during a season of mild weather, following a season of sharp frosty weather. During sharp weather, the smoke on entering chimney condenses and freezes on the bricks, and when the weather moderates, this melts and runs down the chimney flue, which extends only half way down to foundation, and soaks through wall, doing considerable damage to plaster and anything it comes in contact with, as well as destroying brickwork in outer wall. The difficulty of condensed smoke in pipes has been overcome by placing a check draft in pipe above stove. In this case, would it be any advantage to place a seven-inch pipe running from basement or cellar upward, and entering the chimney at bottom of flue, the bottom or lower end of pipe to be left open, or would this act as a check draft on stove? Would the current of air passing through this pipe and up the chimney be sufficient to prevent the smoke condensing before leaving the chimney?

2. What are the duties required of a manager on a large farm, where purebred stock are bred and raised, and what wages per year are usually paid to a competent person holding such a position in Ontario?

3. Would a lubricator work successfully on a windmill bearing? If so, could you give me a simple plan for making one, and what kind of oil would it be best to use? OLD SUBSCRIBER.

Ans.—1. I have had no experience with bad chimneys, but have consulted a stove and furnace dealer who has seen a great many such as here described, and has tried to remedy the defects. He says the only way he has been able to get satisfaction is to abandon the outside chimney, and build a new one up the center of the house. He thinks that having a pipe run through the basement, up and into the chimney at the bottom of the flue, as you suggest, would not improve matters to any appreciable extent. The trouble with your chimney is that it is too cold, due either to faulty construction or insufficient protection. If the chimney flue is oblong in shape instead of square, that would give more surface to the same volume of smoke, and, hence, tend to produce the condensation that occurs. If there is only one thickness of brick between the chimney and the weather, or if it is unlined, these conditions would also produce the bad effects complained of. If it is out of the question to build a center chimney, then the defects of construction in this one will have to be remedied before you can get relief. If the chimney flue is a thin oblong in shape, I would suggest altering this by removing the outside brick and building a well-protected chimney, with flue eight inches square, lined with seven-inch pipe. It would, of course, necessitate the chimney brick projecting out beyond the others, but this is quite common. If the flue is the proper shape, and properly lined, then I would suggest building up the end of the house a layer of brick to protect the chimney from the weather, with a one- or two-inch air space between this false layer of brick and the present brick.

2. The duties required of a manager would vary according to circumstances. The owner might be in a position to exercise a general supervision over the farm, the manager being practically a working foreman, in which case he would probably command in the neighborhood of \$50 a month. On the other hand, the manager might be placed in full charge and held responsible for everything about the farm, in which case he would probably command \$800 to \$1,000 a year.

3. I presume you do not mean exactly what you say when you use the word "lubricator," as this is a piece of apparatus designed especially for giving a constant supply of oil to the cylinder of a steam engine. I take it you mean a "positive-feed" oil cup. Such an oil cup would work well in summer, if supplied with a very heavy oil or grease, but it is questionable whether there is any oil that would not freeze up in winter weather. I have consulted an en-

(Continued on next page.)

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