

OF INTEREST TO FARMERS

Farmers living near enough to the railroad to load their own grain on cars should not be without our

WEEKLY GRAIN LETTER

If you are not already receiving this, send us your name, post office address, as well as the name of your shipping station. We will then write you regularly, giving you full information direct, regarding the demand existing for the different grades and the prices being paid for them on the Winnipeg market.

If you feel that these letters would be of value to you write

RANDALL, GEE & MITCHELL — 237 Grain Exchange, WINNIPEG, Man.

Licensed Cash Grain Commission Merchants

Bonded

waste tied on an iron bar soaked in gasoline or kerosene and lighted can also be used. Probably the best method is a plumber's blow torch. Such a torch can be bought at from two to four dollars, and is one of the handiest appliances that the out-door gasoline engine operator can have in cold weather.

With it, frozen pipes can be thawed out in a few minutes, and any part of the engine can be readily warmed up. Some of the newer engines for outdoor use are being equipped with a small shallow cup under the mixer valve, where a small quantity of gasoline can be ignited, and the mixer and piping warmed up, precisely in the same manner as a gasoline stove is started up. Such devices are usually so connected that the gasoline can run into the cup by opening a small pet cock in the gasoline feed pipe, thus dispensing with the necessity of carrying gasoline in a separate can. As I have already said, the only caution necessary in using any of these devices in the preliminary warming of the engine, is to be absolutely sure that there are no openings into the gasoline tank, which are open and unprotected by a screen, or which are not reduced to a series of small holes of less than one-eighth inch in diameter. Flame will not enter a tank containing gasoline or gasoline vapor through a hole of less than one-eighth inch in diameter, and you cannot drive the flame from a blow torch through a wire screen of one thirty-second inch mesh. The danger of fire from gasoline in the gasoline engine is mainly from leaks in the tank or the connections, just as in the deadly gasoline stove. Use judgement and common sense in handling gasoline and there is little danger. A lighted cigar will not ignite gasoline, a fact which can be easily proven by immersing the lighted end of a cigar in a small cup of gasoline, when, contrary to the popular belief, the cigar will be immediately extinguished, just

as if you had dipped it in water. An iron bar heated to a dark red heat can be cooled in a pailful of gasoline with perfect safety.

Very cold weather, as already stated, affects the dry cells of the battery. Some battery manufacturers claim that their batteries can be packed in ice and still maintain their amperage, but my own experience has been that cold weather has a tendency to reduce the amperage of nearly all makes of dry cell batteries. The reason for this is not far to seek. In all dry cells a certain amount of liquid is used in their construction, and this liquid freezes or congeals to a certain extent in very cold weather, preventing the free action in the cell and thus reducing the amperage or volume of the current. In cold weather, due to the adverse conditions in vaporizing the gasoline, and to the fact that the gasoline in the first charges is only partially vaporized, as large a spark as can be obtained is a great advantage in starting the engine; but we can readily see that the same causes prevent the battery from giving a good spark, thus making the starting of a gasoline engine on a cold morning doubly hard. Some engine operators of my acquaintance who run these engines outdoors all winter long in all kinds of weather, have adopted the method of taking the battery cells into the house and placing them close to the stove all night. By this method the cells are in excellent shape in the morning, and in the best condition to deliver a strong spark when it is most needed.

As it is somewhat of a nuisance to disconnect the wires every night and connect them again in the morning, I have supplied some of my friends with a special battery box for outdoor use in the winter time. This consists of a box within a box, the cells being contained in the inner box which slips easily into the outer box. The wires to the engine and magnets are connected to connections

SHIP YOUR GRAIN THROUGH US WE WILL LOOK AFTER YOUR GRADES

We only charge 1/2 c. Commission
References any Bank or Commercial Agency.

THE CANADIAN ELEVATOR CO., LTD.

WINNIPEG, MAN.

GRAIN SHIPPERS

WHY NOT GET MORE

for your grain by consigning it to a firm who sells it for you at the highest market prices than to one who buys it themselves at their own prices.

WE WATCH THE GRADING

of each car and advance money on it if you wish to hold and sell when you instruct us.

GIVE US A TRIAL SHIPMENT

and ask for our market quotations and shipping directions.

THE N. BAWLF GRAIN COMPANY

GRAIN COMMISSION MERCHANTS

WINNIPEG, MAN.

OATS FOR BREAKFAST

In this climate there is nothing better than Oats in some form for breakfast, and the form in which they are most easily digested is as Rolled Oats, but they must be properly milled in order that the consumer get best results. Our Mills are noted for their fine products, and we know you will find

OGILVIE OATS
always give satisfaction

attached to the outer box. The battery and spark coil wires are attached to flat brass springs on the outside of the inner box and as the inner box is slipped into the outer one, these brass springs come in contact with the inside ends of the wire connections on the outer box. All the operator

has to do is to slip the inside box out at night and take it along with him, bring it back in the morning and slip it back into its place, no wires to connect or disconnect; the slipping in of the inner box carrying the cells automatically makes all the connections.

Continued on page 54