

Cold Weather Tips for Tractor Drivers

By Russell Adams

The season of the year is fast approaching when the tractor driver should be excused if he is inclined to use strong language while trying to get a balky engine to start.

Hard starting in cold weather has always been a chronic disease in internal combustion engines. In the early days of the gas engine era we had superfluous gasoline, but the engines were so crude that they were difficult to start anyway. To-day we have splendid engines, but our gasoline has so deteriorated that starting troubles are, if anything, more prevalent than in days gone by.

This situation has led to the invention of many devices designed to overcome this reluctance on the part of a cold engine to get up and get after the first turnover, but many of us do not have an opportunity to investigate the merits of these devices, and many times they are not adapted to the older model machines.

Having had considerable experience with many makes of gas and oil engines it is needless to say that I have had my share of trouble in getting some of them started on a cold day, or a warm day either, for that matter.

Undoubtedly one of the best methods of getting an easy start on a cold morning is to fill the cooling system with hot water, and while the engine is taking the chill out of the cold engine it is an excellent idea to prime each cylinder with about a teaspoonful of high-test gasoline. But, if that cannot be obtained, the next best thing is commercial benzine, which can be had from almost any druggist.

While operating an engine which was very bad to get started on a cold morning, I made a little discovery which may be of benefit to you some day, so I am passing it along:

I secured a small metal container—a shaving-soap box, in fact—in which I drilled six or eight three-sixteenth-inch holes. In a small wad of wet

cotton waste I placed three or four pieces of calcium carbide the size of a pea; the wet waste, with the carbide in the centre, was then put in the container and the container placed in the air intake of the engine mixer.

As carbide gas is a very explosive mixture it is seldom that I failed to get a shot on first turnover of crank.

I have used this method many times, and on different makes of machines, with satisfactory results. I have seen practically the same method used by other operators, the only difference being that they used ether on dry cotton waste, which was placed in metal container and the gas introduced to cylinders by the air intake. I have seen operators use a blow torch with flame directed against intake manifold until it was almost red hot; but there is a little too much danger attached to that plan to please me.

Present-day gasoline shows a marked tendency toward condensation, even after it has passed the air spray of the carburetor or mixer. Hence it is necessary to use considerable heat to minimize this fault, and it is very often the case that our troubles do not end with getting the engine started. Low-test fuels require constant heat until the gas is consumed, and in very cold weather the intake manifold may remain cool enough that condensation will continue all day long; and if this be the case much of the unburned fuel will be forced past the cylinder rings down into the lubricating oil where it can do untold damage to pistons, cylinders and crankshaft bearings.

The remedy is obvious—more heat at intake manifold. Surrounding the manifold with an asbestos or sheet-iron jacket. Many of the new models of tractors are supplied with a so-called "manifold stove," a simple contrivance made of sheet iron equipped with a damper which allows the operator to introduce cold air after the manifold is sufficiently heated.

the sucker or waterspout until it reaches the trunk or large limb where a canker is produced leading to death of the affected part.

Where the disease is active during the growing season there is frequently a gummy brown exudate oozing out from the cankers. This exudate contains the causal bacteria in immense numbers. During rain storms this exudate may be splashed to other parts of the tree, thus leading to fresh infections.

To control and stamp out this disease it is essential to cut out all affected portions of the tree. In doing this, care should be taken to cut well below the visibly affected portion, four to six inches, if possible, as the bacteria are usually well advanced beyond the cankered area in the bark. The saw, knife, or shears used should be swabbed after each cut with a good disinfectant, e.g., corrosive sublimate 1-1000, formalin, or five per cent. carbolic acid. If the canker is in the trunk or larger limbs the affected part should be removed by cutting well around the canker, two or three inches at least beyond the visible extent of the canker. The wound should then be swabbed with the disinfectant and then painted over.

The best time to cut out the disease is the first time it is seen, as each infection, so long as it is allowed to stay, is a centre for continued spreading of the trouble. All material cut away should be carefully gathered and burned.



The handiest thing we have around the hog end of our farm is a bottomless hog crate. The one we have is four feet long, thirty-two inches wide by thirty-eight inches high, has an ordinary "slip" door in one end. In making the crate let a board extend about eight inches on both sides and on each end of the crate. These make convenient handles. When misthuff hog refuses to enter the crate just slip it over the top of her, and there you have the most stubborn hog in the crate without the loss of any valuable time and patience. Now, with the aid of a couple of planks you can load and unload the heaviest hog without any heavy lifting. If "piggy" does not like to walk the straight and narrow path forward, just turn them around and, hog-fashion, they will always go backwards.

After the cattle and hogs are loaded it is well to tie the crate fast to the wagon box.—Ray R. Hudson.

Two short posts are set firmly in the ground with a distance between their tops two or three inches more than the diameter of the barrel. Enough light strap iron about four inches wide is secured to go around the barrel and be securely clamped to it by a bolt through the turned-out ends. After the clamp is made, two holes are drilled through it, spaced diametrically opposite, to admit the hanger bolts, which should be three-quarters of an inch in diameter or larger, and long enough to go through the posts in holes bored for them. When the device is assembled the barrel is clamped in and ready for service. Care should be taken to have the clamp slightly above the centre of the barrel, so that it will stay right end up when full. There is no danger of its tipping by itself at other times, as the partially filled barrel will be held upright by gravity.

Forget that you need exercise when planning the dairy barn. Cut out every step you can.

Children at the age of four years need twelve hours sleep a day. At the age of five, eleven hours seems to be sufficient. From the age of eight to eleven, when children are doing active school work, they need from ten to eleven hours sleep; and at twelve to fourteen years, nine to ten hours sleep. Children grow mainly while sleeping and resting, and if they are to develop strong husky bodies they must have plenty of rest and sleep.

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An Autumn Idyl.

Yonder she comes through the meadow green.

With head held regal and gaze of a queen
The sunlight gleams on her dazzling hair
And catches the beams of her hazel eyes.
As she wanders on with a dreamy air

Beneath the blue of the autumn skies:
And I stand alone by the wicket here
And watch and wait till she draweth near.

High overhead on sweeping wing,
The swallows dart and wheel and swing,
And while she pauses on her way
To turn a quick approving ear.

A clear note greets the dying day.
Then all is silence, far and near;
While at her feet, mad grasses mellow,
Are oak leaves fallen, bronze and yellow.

The light is fading in the west,
The golden clouds have sunk to rest,
The swallows to their nests have fled.

I linger still before the gate,
Still wanders she with stately tread
While here I stand, and watch and wait.

Be still my heart! She's coming now!
I vow, I'm proud of that Jersey cow!

A Barn Dance.

October is a good time for a joyous, rollicking barn dance, and if you have not a big, clean barn whose floor is fit to dance on, then deck the hall where you hold your dances as you would for an old-fashioned barn dance. You can cover the walls with the gorgeous-tinted autumn foliage to make a riot of color; sheaves of wheat stacked in corners will hide bare walls; cacti make most effective decorations and you have the whole countryside to draw on for masses of bloom and autumn foliage.

You might send out invitations on pieces of brown wrapping paper to carry out the idea of formality and if you wish guests to come in costume, so much more fun. Serve refreshments on an improvised table of long boards set at one end of the room and let the guests help themselves to the big plates of sandwiches, doughnuts, cakes. Have lemonade or cider to drink. Cover the table with yellow crepe paper. Use hollowed-out pumpkins for serving dishes and lanterns.

Interpolate the dances with old-fashioned games. For one dance you might have sparklers. They are harmless and lots of fun and you can get ten for 5 cents.

Make it a real "mixer" to get all of the young people in your community acquainted. If there are strangers at the party try this by way of breaking the ice.

Have each person write his name on a piece of paper and pin it in some conspicuous place on him during the evening. Then by way of starting festivities, have the boys and girls form separate circles; start the music, the girls whirl around in a circle inside, the boys outside. When the music stops suddenly, the boy and girl standing nearest together must talk very, very fast for a few minutes.

Safety First for Trees.
The other day as we drove into a farmyard to replenish the water supply in Lizzie's radiator, we noticed a tree guard that was the embodiment of a rather clever idea.

The tree surrounded by the above mentioned protection stood at the corner of the drive where it turned in from the highway. The danger of damage was both imminent and constant. An old cultivator wheel of solid-iron construction was taken to the anvil and each spoke was cut in two at the hub, thus allowing the hub to fall out.

Each spoke was then bent down so that when the rim was horizontal, each spoke stood in a vertical position. This was then slipped over the tree, and the spokes driven into the ground by tapping various points on the rim with a mallet. The rim may be cut in two with a hacksaw or hammer and chisel after five or six years, at which stage the tree will be able to defend itself. Just another way for some discarded part.—D. R. V.

For Your Fuel Barrel.
This is a very good way to handle the farm fuel barrel. The barrel is always upright for easy filling by the oil man and to prevent any accidental leakage. When some fuel is wanted the barrel is easily tipped, with just enough clearance between the ground and the spigot for the average oil can.

Two short posts are set firmly in the ground with a distance between their tops two or three inches more than the diameter of the barrel. Enough light strap iron about four inches wide is secured to go around the barrel and be securely clamped to it by a bolt through the turned-out ends. After the clamp is made, two holes are drilled through it, spaced diametrically opposite, to admit the hanger bolts, which should be three-quarters of an inch in diameter or larger, and long enough to go through the posts in holes bored for them. When the device is assembled the barrel is clamped in and ready for service. Care should be taken to have the clamp slightly above the centre of the barrel, so that it will stay right end up when full. There is no danger of its tipping by itself at other times, as the partially filled barrel will be held upright by gravity.

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Poultry

Small wooden tables can be made of short pieces of two by four and scrap lumber. If they are only six inches above the level of the litter they will help in keeping the litter out of the sour milk dishes. Water pails placed in wooden store boxes just a little larger than the diameter of the pails will remain upright even when the hens roost on the edge.

Mash hoppers with narrow throats often clog and it becomes a daily job to poke the mash down with a stick. This can be avoided by slightly enlarging the throat by removing the lower front board and by placing a curved piece of galvanized at the back of the hopper. The mash will slide down most easily over the smooth metal surface.

There is no time the poultry keeper cannot find work. But spring is the busiest season of all, as hatching and brooding about doubles the regular work. So it pays to build colony houses and brood coops in the fall whenever it is possible. Every hour spent on such work in the fall gives you an extra hour to do other work in the spring. And too often the equipment you need next spring that is not built this fall you will not be able to build next spring.

Laying houses should be finished as early as possible as they are somewhat damp when first completed. It is safer to keep the pullets out until dry sunny fall days have taken out a lot of the moisture. When houses are built late in the fall it is difficult to do a good job if the lumber is constantly being soaked by fall rains. If you build with wet lumber many cracks are apt to appear when the hot sun begins to dry the boards.

Phosphates Essential for Fall Wheat.
The Department of Chemistry, Ontario Agricultural College, during the past year carried on experiments in eight counties to show the effect of lime and phosphates on fall wheat seeded with clover.

From observation during the growing season and from yields the following points are noted:

1. Phosphates gave an increased yield in every case, averaging fifty per cent.

2. The catch of clover was wonderfully improved by the phosphates.

3. Size and quality of grain was increased, as well as yield, by phosphates.

4. The cost of 400 lbs. of acid phosphate per acre was more than covered, leaving a substantial profit in every case.

5. It is estimated that approximately half of the phosphate remains in the soil for succeeding crops.

6. Liming makes little difference to the growth and yield of fall wheat. Its effect will undoubtedly be seen on the stand of clover the following year.

The results of these experiments may be seen at the College exhibit at Toronto, London, Simcoe and Welland exhibitions, illustrated by photographs and the actual grain grown.

Farmers are well advised to apply acid phosphate (superphosphate) to their fall wheat this year at from two hundred to four hundred pounds per acre.

Uses for Green Tomatoes.
Green tomatoes which are solid and firm may be stored in the cellar and kept until nearly Christmas. Spread some old newspapers on the cellar bottom and place the tomatoes so that they do not touch each other on this. Use those first that show signs of turning red. When something different is wanted for dinner, cut the tomatoes in slices, dip in egg and flour and fry. Serve on a hot platter.

Green tomatoes may also be served with onions. Place alternate layers of thin slices of tomatoes and onions in a frying pan. Add half a cup of water and cover tightly until wilted by steam. Add half a cup of butter and fry slowly. Toss with a fork and be careful not to burn.

Growing Children Need Much Sleep.
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For Home and Country

News From the Ontario Women's Institutes.

An interesting item in the year's events of Tehkumma Institute on Manitoulin Island is that the Institute presented the twin babies born to one of their members with a pair of crib blankets and to triplets which came to another home the Institute gave a silver cup. This Institute is taking care of the cemetery and assisting the school.

Barrie Island Institute in Manitoulin provides hot lunch supplies for the school, including milk. They gave prizes at the school fair, assisted the community church and contributed this year to the Children's Shelter, Northern Fire Relief and to the Free Hospital for Consumptives. This Institute is very much pleased with the travelling library.

Dorchester Institute has presented the school with wash-basins, paper towels and a number of good pictures. They are contributing to the London Memorial Hospital. Practically all the Institutes of Middlesex county are assisting with the London Memorial Hospital.

Vernon Institute this year raised nearly \$450 through concerts and socials. A considerable amount of this went to pay for a piano. A generous supply of clothing was sent to the

Northern Ontario fire sufferers. One of this Institute's good community ventures was to organize a community singing class last winter under the direction of a local leader. The Institute also presented the school with flowers and shrubs for the grounds and window boxes. Window shades were also given to the school.

Clinton Institute has placed a gramophone in their school. They are furnishing a room in the local hospital and are spending \$300 on the improvement of their cemetery.

Blythe Institute has introduced a hot lunch in two schools. This Institute has contributed generously to the payment for their community hall. Since the hall has been established the young people of the community have been very successful in putting on plays.

St. Helen's Institute in West Huron has provided basins and towels for the schools and a couch for the teacher's room. They are buying a piano and lamps for the community hall.

Seymour Institute is building up a splendid Institute library. This Institute is carrying on a sewing class and story hour for the girls and assisting the boys' baseball team by getting a man to coach them and by providing them with lunch occasionally.

Why We Like Hardy Lilies.
Husband and I have always tried to make the grounds around our home as attractive as possible. At various times we have planted many different things—annuals, hardy perennials, and shrubs. We have learned, through many bitter disappointments, that there are many things recommended in the catalogues which no farmer should bother with. They may be beautiful enough, but the man with crops and stock to attend to simply won't have time to give them the attention they demand. But not so with the hardy lilies; these make an ideal busy farmer's flower.

First, you can plant them at any time up to the end of November, when the rush of fall work is past.

Second, they will keep on blooming from year to year with practically no attention. Some of them, such as the well-known tiger lily, will hold their own, even though entirely neglected, against practically any weed or grass.

This is true also of the Canadian or yellow bell lilies. With all the others, the only care needed is to hoe around them lightly once or twice in the spring after the mulch is removed, to keep the weeds from getting a start. After that they will look out for themselves.

There is one important thing to guard against in planting lilies, especially in heavy or wet soils, and that is possible rotting of the bulbs. Putting three or four handfuls of sand under each bulb, when planting, will prevent this, even in the heaviest soils.

The hardy lilies should be planted much deeper than tulips or hyacinths—six inches or more, deeper in light soil than in heavy. I usually get some old manure out of last spring's hotbed, to mix in the soil where they will be planted. Fresh manure is liable to cause decay.

While no mulching is required to protect hardy lilies from freezing, I like to cover the bed with several inches of stable manure after it has frozen hard on the surface. This mulch keeps the surface frozen and prevents water from melted snow and ice getting down around the bulbs during the winter and early spring. Most of this mulch should be removed when growth starts.—A. H.

Winter Flowers.
If you want to brighten your windows this winter at a small expense, put up some of your brightest annuals. You can put petunias, verbenas, portulaca, and almost any of the free bloomers that you like, and many of them will produce flowers indoors in winter, both larger and finer in color than they produce outside. I have grown snapdragons with much finer spikes than I ever saw in the garden. Sweet alyssum seems to like house culture, for the spikes are heavier, and rose moss has larger and more double blooms. Before potting any of these, cut them back severely. Give a rich soil and large pots and keep moist, and you will be surprised at the results; not many regular house plants will be prettier. Sometimes I root cuttings rather than take up the old plants; they will bloom as well and make smaller plants.—Agnes Hille.

Rainy Day Work.
"Oh! what can I do
This long, rainy day?"
Cried Polly, "I'm tired
Of nothing but play!"
"Come give me a drink,"
Chirped yellow-bill Dick,
Polly stared at him, laughing,
Then brought it real quick.

She looked all around
With bright, searching eyes
Then ran to rock brother,
Hushing his cries.

"I guess there is plenty
To do, if one wishes."
Polly nodded and ran
To help Mother with dishes.
—M. M. Garrison.

Try a whisk broom and hot water the next time you have clothes to dampen. They will be ready to iron in a very short time. It will not be necessary to get them very wet, as the hot water is absorbed into the fabric more readily than cold.

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Returning from her honeymoon, Mrs. Jack Connors hurried into her Uncle Walter's drawing-room. In spite of her veil her lovely hair gave itself to the wind; her traveling suit and loose coat were like full sails; her blue eyes shone like sun-touched bubbles; and her voice suggested the ripple of clear waters.

All the young people loved Uncle Walter and Aunt Annie. The old couple had a sweet, sympathetic way with them, and they were so loving. So Myra—now Mrs. Jack Connors—just had to have a peep in at Uncle Walter's even before she went to her own home folks.

"Oh, we had just a lovely time!" she exclaimed. "I enjoyed every minute. Couldn't tell which I liked best, Niagara, or the Lake trip, or the Exhibition. It was all so lovely, and Jack was just too good for anything!"

Aunt Annie came in while Myra was talking. The girl turned and greeted her affectionately, perhaps a little patronizingly, and went on with her account of her trip. Mrs. Walter took her seat on the lounge beside her husband, who threw his arm lovingly round her shoulders.

"Jack and I pulled the wool over people's eyes everywhere," Myra was saying as she tossed her head proudly. "There wasn't a place in which they knew we were just married or thought so."

Uncle Walter's eyes beamed merrily, and Myra smiled with satisfaction. Aunt Annie looked shrewdly at the new garments and noticed the enthusiastic ways of the bride, wondering as she did so if they were ever possible for a "newly-wed" to hide her newness. But what advantage was there? And whatever did Myra mean? Did the girl mean that she and her husband had learned or had purposely ceased to be attentive to each other and to do those sweet, kind, considerate things which true love always prompts? What advantage, what triumph, was there in that?

Uncle Walter was the best of husbands, especially to children and young people, and he usually looked them in the eyes; but now for a moment his eyes left Myra's and rested on the face of his wife. The two were so used to reading each other's thoughts that he guessed what his wife was thinking.

"That was wonderful, Myra," he said kindly, "but if you will wait a minute, I'll tell you something that was quite wonderful to me."

"Just a minute then," said Myra, resuming her seat, for she had risen to take her departure. "I should be home now, you know."

"Yes, they are looking for you all right, but it wouldn't do for little Myra to forget her Uncle Walter. This little thing, however, may be good for you to hear and pass on to Jack. When your Aunt Annie had the courage to marry me I was a poor accountant, and after the wedding we had just enough money to pay our fare to the little home we had fixed up to live in. Like most young people we planned for a honeymoon trip from the first day we were married and even before, but it was hard sledding at first. Money came in slowly, and there were babies. But after we had worked and saved for fourteen years our chance came. We had got so far ahead that we thought that we could afford a holiday. Grandparents came and took care of the children, and Aunt Annie and I went off on our honeymoon trip. And, would you believe it, everywhere we went people thought that we had just been married!"

Silo-Filling Accidents.
Every year the newspapers contain accounts of accidents which happen at silo-filling time.

Last year my husband was seriously injured while helping a neighbor fill his silo. This man's silo was a rebuilt one, and some 2x6's which had been used in the construction, had been carelessly left in the top of the silo.

One of these jarred loose, came down and hit my husband on the head. The doctor said if the wound had been one-half inch farther up he would have been killed instantly. A man in the next county was injured so badly that he died in a few days.

It is hard to estimate just what per cent. of silo accidents are due to carelessness; but it is certain that a large part of them might be avoided, if the owner of the silo and the men working about it were to put the "safety first" slogan into effect, and take time to see that everything is perfectly solid and safe before commencing to fill the silo.

The jar of the machine when filling will loosen doors and other things which at other times may seem comparatively safe; therefore, see that there are no doors ready to tumble down on the heads of the men working inside the silo.

When the distributor pipe is put up take particular pains to see that it fits together right, so that there will be no danger of its coming apart and falling on the men. Ladders should be inspected to see if they are strong and safe to use.

A poisonous gas forms in closed silos which are partially filled and then allowed to settle overnight. Before the men go into the silo to work for several minutes, the blower should be forced out the poisonous gas.

You will no doubt be very busy at silo-filling time, but don't take any chances with things that are not perfectly safe. Take a little time and make them right. Remember that you might "better be safe than sorry."
—Mrs. Earl S. Taylor.

Bedtime Stories
"Do you always meet your bills?"
"Yes, sir! I ain't one o' them kind that sneaks out the back door when the collector comes—not even when I ain't got a cent!"

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Intelligence Ser

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Our financial and investments are dominated more energetic development our natural resources. In the liquidation of debt. This recognition value of our national has created and intense demand from Canada foreign manufacturers accurate information and progress in development these resources, especially they pertain to our furerals and water-power the first necessary of the and the Department of Natural Resources, Service, reports a number of requests these. This branch, for is in a position to answer enquiries, and has a series of resource in other literature of value commercial interests. available on application is suggested that we make themselves familiar with the services which the Resources Intelligence

No grief but has its end
No pain is past Tom's end
Great griefs and little