Cold Weather Tips for Tractor Drivers

By Russell Adams

The season of the year is fast approaching when the tractor driver pleces of calcium carbide the size of a should be excused if he is inclined to pea; the wet waste, with the carbide use strong language while trying to get a balky engine to start.

Hard starting in cold weather has air intake of the engine mixer. early days of the gas engine era we a shot on first turnover of crank. had superfine gasoline, but the engines were so crude that they were difficult and on different makes of machines, to start anyway. To-day we have with satisfactory results. I have seen are, if anything, more prevalent than in days gone by.

This situation has led to the invention of many devices designed to over-come 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 gines it is needless to say that I have

water is taking the chill out of the if this be the case much of the prime each cylinder with about a tea- cylinder rings down into the spoonful of high-test gasoline. But, if ing oil where it can do untold damage that can not be obtained, the next best to pistons, cylinders and crankshaft thing is commercial benzine, which bearings. can be had from almost any druggist. The rer

which may be of benefit to you some day, so I am passing it along:

secured a small metal container

"FIRE BLIGHT."

Bacterial Blight of Apple, Pear

quince trees, is very prevalent this season in many parts of Ontario, par-

bacteria that cause the disease. these multiply in the nectaries and

branches and trunk the probability is

that it will live over the winter in a

dormant condition and begin to extend itself the following spring when the

sap flow commences. This in time brings about the death of the larger

limbs and trunk as the blight canker spreads in the bark. We have known

young trees to be killed out in one

year with this disease, though older

trees will sometimes live for years

with the canker slowly developing until finally the tree either dies or has

to be removed for not giving a pay-

aphids, hoppers and borers are com-

mon carriers of the disease from in-

fected twigs to healthy twigs, either

on the same or neighboring trees. In

this way young suckers and water-

sprouts get infected, and, as in the case of the blossom-infected twig, the

During mid-season other insects as

ing crop.

tainer and the container placed in the always been a chronic disease in in-ternal combustion engines. In the ture it was seldom that I failed to get

splendid engines, but our gasoline has practically the same method used by so deteriorated that starting troubles other operators, the only difference be ing 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 mark-ed tendency toward condensation, even after it has passed the air spray of Having had considerable experience the carbureter or mixer. Hence it is necessary to use considerable heat to had my share of trouble in getting often the case that our troubles do some of them started on a cold day, not end with getting the engine startor a warm day either, for that matter. ed. Low-test fuels require constant Undoubtedly one of the best meth- heat until the gas is consumed, and in ods of getting an easy start on a cold very cold weather the intake manifold morning is to fill the cooling system may remain cool enough that conden-with hot water, and while the hot sation will continue all day long; and cold engine it is an excellent idea to burned fuel will be forced past the

remedy is obvious-more heat While operating an engine which at intake manifold. Surrounding the was very bad to get started on a cold manifold with an asbestos or sheetmorning, I made a little discovery 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 shaving-soap box, in fact—in which with a damper which allows the opdrilled six or eight three-sixteenth-erator to introduce cold air after the inch holes. In a small wad of wet manifold is sufficiently heated.

the sucker or watersprout until it reaches the trunk or large limb where

from the cankers. This exudate con- kins for serving dishes and lanterns. tains the causal bacteria in immense Intersperse the dances with numbers. During rain storms this fashloned games. For one dance ticularly in apple trees. We have re-ceived quite a number of blighted ap-ple twigs for identification of the

numbers. During rain storms this fashioned games. For one dance exived quite a number of blighted apple twigs for identification of the trouble and advice on the same, and have observed trees badly affected in many places, so says Professor D. H. Jnoes, Professor of Bacteriology at the Ontario Agricultural College.

numbers. During rain storms this fashioned games. For one dance might have sparklers. They parts of the tree, thus leading to fresh infections.

To control and stamp out this discrete for 5 cents.

Make it a real "mixer" to get the your people in your community the visibly affected portions of the tree. In define the party try this by way of breather the party try the p below the visibly affected portion, four the ice.

It inches, if possible, as the backing inches, if possible inches, if p quently present the appearance of having been scorched by fire, hence the common name "Fire Blight." The young the cankered area in the bark. The saw, knife, or shears used should and shrivel up and the blossom on be swabbed after each cut with a good young fruit will turn brown and die disinfectant, e.g., corrosive sublimate 1-1000, formalin, or five per cent. car-the girls whirl around in a circle in-bolic acid. If the canker is in the side, the boys outside. When the and mummify. In some trees a few twigs only may be affected, in other cases practically every twig will be

should be removed by cutting well standing nearest together must talk Trees that are affected in this way at least beyond the visible extent of around the canker, two or three inches very, very fast for a few minutes. in the early part of the season are the canker. The wound should then in the early part of the season and the canker. The wound should then either hold-over cases of the blight be swabbed with the disinfectant and from the previous season or have been then painted over,

freshly inoculated through the blossom with the bacteria that cause the is the first time it is seen, as each indisease, by bees or other blossom fection, so long as it is allowed to stay, visiting insects that have previously is a centre for continued spreading of become contaminated by visiting trees the trouble. All material cut away that are hold-over cases from the preshould be carefully gathered and When a contaminated bee or other burned. insect visits a blossom for nectar or pollen, it leaves behind it some of the

pass on down the blossom pedicel into the bark of the fruit spur where they The handiest thing we have around produce a canker and kill the spur the hog end of our farm is a bottom- less hog crate. The one we have is that when the rim was horizontal, four feet long, thirty-two inches wide each spoke stood in a vertical position.

Leach spoke was then bent down so thin slices of tomatoes and onions in a frying pan. Add half a cup of water and cover tightly not then allowed over the tree. of the twig, causing canker and death by thirty-eight inches high, has an as they go. The leaves of the twig ordinary "slip" door in one end. In then shrivel up, turn brown and die, making the crate let a board extend by tapping various points on the rim giving the characteristic fire-blighted about eight inches on both sides and with a mallet. The rim may be cut on each end of the crate. These make in two with a hacksaw or hammer and convenient handles. When mistress chisel after five or six years, at which hog refuses to enter the crate just slip stage the tree will be able to defend If the blighted twigs are allowed to stay on the tree throughout the season it over the top of her, and there you itself. Just another use for some dishave the most stubborn hog in the carded part.—D. R. V. the disease will continue to work on down the twigs sometimes rapidly and sometimes slowly, until eventually it reaches the bark of the larger limbs, time and patience. Now, with the aid of a couple of planks you can load and unload the heaviest hog without any the trunk of the tree, where it becomes apparent as a canker. In heavy lifting. If "piggy" does not like to walk the straight and narrow path cases where the disease does not reach the bark of the thicker branches or trunk before fall there is a tendency forward, why just turn them around for the disease to die out during the winter. But where it gets established as blight canker in the bark of the

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



Shooting Craps. Mother-"You say John has been an ested for shooting craps?" Dad-"Yes-the young rascal!" Mother-"But how did he ever get disease will pass on down the bark of hold of a gun?"

An Autumn Idyl.

Yonder she comes through the mea green, With head held regal and gaze of a

The sunlight gleams on her dazzling And catches the beams of her hazel

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

High overhead on sweeping wing,

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;

The light is fading in the west,

While here I stand, and watch and wait.

In the spring. And wo of the spring that is not built this fall you will not be able to wait.
Be still my heart! She's coming now!

vow, I'm proud of that Jersey cow!

A Barn Dance.

where you hold your dances as you would for an old-fashioned barn dance. You can cover the walls with the goryou build with wet lumber many things—annuals, hardy perennials, and shrubs. We have learned, through riot of color; sheaves of wheat stack-ed in corners will hide bare walls; cattails 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 a canker is produced loading to death let the guests help themselves to the and Quince Trees.

"Fire Blight," a most destructive bacterial disease of apple, pear and part a gummy brown exudate oozing out from the cankers. This exudate continuous for the affected part.

Where the disease is active during cake. Have lemonade or cider to drink. Cover the table with yellow-crepe paper. Use hollowed-out pump-

a piece of paper and pin it in a conspicuous place on him during evening. Then by way of startifestivities, have the boys and gir form separate circles; start the musi trunk or larger limbs the affected part music stops suddenly, the boy and girl

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 Use those first that show signs of this mulch should be removed when stant. An old cultivator wheel of ent is wanted for dinner, cut the tosolid-iron construction was taken to matoes in slices, dip in egg and flour the anvil and each spoke was cut in and fry. Serve on a hot platter. two at the hub, thus allowing the hub

For Your Fuel Barrel.

always upright for easy filling by the oil man and to prevent any accidental and, hog-fashion, they will always go 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 inches wide is secured to go around the barrel and be securely clamped to it by a bolt through the turned-out gardening. The screenings may bring the house and also on the flower bordholes are drilled through it, spaced diametrically opposite, to admit the hanger bolts, which should be three-tions in the scratch feed that is scattered by taking pains to use manure clean of weed seed, he has found little trouble from weeds the following year.

The plants, however, respond promptquarters of an inch in diameter or tered on the range for young stock. If The plants, however, respond promptlarger, and long enough to go through the mixture contains weed seeds a lot ly in the spring. This, he thought, the posts in holes bored for them. of the weeds may be left on the range was due both to the protection affordrel 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.

dazzling dazzling 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 to the litter that the litter than the litter to the litter than the litter than the litter to the litter than the l a little larger than the diameter of the pails will remain upright even when

Mash hoppers with narrow throats often clog and it becomes a daily job to poke the mash down with a stick. The swallows dart and wheel and larging the throat by removing the swing, This can be avoided by slighly encurved piece of galvanized at the back of the hopper. The mash will slide down more easily over the smooth

metal surface. While at her feet, mid grasses mellow.

Are oak leaves fallen, bronze and cannot find work. But spring is the busiest season of all, as hatching and The light is fading in the west, the golden clouds have sunk to rest. The swallows to their nests have whenever it is possible. Every hour spent on such work in the fall gives linger still before the gate,
Still wanders she with stately tread in the spring. And too often the equipment you need next spring that is not

build next spring.
Laying houses should be finished as early as possible as they are somewhat damp when first completed. It is October is a good time for a joyous, rollicking barn dance, and if you have not a big, clean barn whose floor is of the moisture. When houses are

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:

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

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

3. Size and quality of grain was ined, as well as yield, by phos-

cost of 400 lbs. of acid tosphate per acre was more than wered, leaving a substantial profit in ery case.

melf of the phosphate remains the soil for succeeding crops. 6. Liming makes little difference to e growth and yield of fall wheat. stand of clover the following year. The results of these experiments ay be seen at the College exhibit at Foronto, 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

Uses for Green Tomatoes.

Green tomatoes which are solid and firm may be stored in the cellar and kept until nearly Christmas. Spread

Green tomatoes may also be served 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.

be sufficient. From the age of eight more double blooms. Before potting This is a very good way to handle the farm fuel barrel. The barrel is active school work, they need from the special and large pots and the school work, they need from the school work and the school work are school work they need from the school work are school work they need from the school work they need fr ten to eleven hours sleep; and at twelve to fourteen years, nine to ten at the results; not many regular house hours sleep. Children grow mainly plants will be prettier. Sometimes I while sleeping and resting, and if they root cuttings rather than take u are to develop strong husky bodies old plants; they will bloom as

Feeding Screenings Brings Weeds.

If you buy screenings for the chick-After the clamp is made, two you the finest collection of variegated ers. en the device is assembled the bar- to cause future work of eradication, ed the plants during the temperature

tractor will take care of the work.

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

For Home and Country

News From the Ontario Women's Institutes.

to another home the Institute gave a and window boxes. Window shades silver cup. This Institute is taking were also given to the school. 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, tute has contributed generously to the Northern Fire Relief and to the Free Hospital for Consumptives. This Institute is very much pleased with the travelling library.

Dorchester Institute has presented plays.

the school with wash-basins, paper towels and a number of good pictures. They are contributing to the London Memorial Hospital. Practically all er's room. They are buying a piane the Institutes of Middlesex county are and lamps for the community hall. 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

An interesting item in the year's Northern Ontario fire sufferers. One events of Tehkummah Institute on of this Institute's good community ventures was to organize a community presented the twin babies born to one presented the twin babies born to one direction of a local leader. The Instiof their members with a pair of crib tute also presented the school with blankets, and to triplets which came flowers and shrubs for the grounds

Clinton Institute has placed a gramaphone in their school. They are furnishing a room in the local hospital and are spending \$800 on the improve-ment of their cemetery.

Blythe Institute has introduced a

hot lunch in two schools. This Instipayment for their community hall. Since the hall has been established the young people of the community have been very successful in putting on

St. Helen's Institute in West Huron has provided basins and towels for the schools and a couch for the teach-

Severn Institute is building up a splendid Institute library. This stitute is carrying on a sewing class and story hour for the girls and assisting the boys' baseball teams by getting a man to coach them and by providsupply of clothing was sent to the ing them with lunch occasionally.

Why We Like Hardy Lilies.

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 seep the weeds from getting a start. After that they will look out for

There is one important thing to guard against in planting lilies, espe-cially 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 quite heavy soils. much deeper than tulips or hyacinths such deeper than tulips or hyacinths solid and safe before commencing to six inches or more, deeper in light fill the silo. soil than in heavy. I usually get some old manure out of last spring's hotbed, to mix in the soil where they will which at other times may seem com-

While no mulching is required to down on the heads of the men working protect hardy lilies from freezing, I made the silo. like to cover the bed with several inches of stable manure after it has take particular pains to see that it takes particular pains to see th kept until nearly Unristmas. Spread some old newspapers on the cellar bottom and place the tomatoes so that they do not touch each other on this. They those first that show signs of rowth starts.—A. H.

Winter Flowers.

If you want to brighten your windows this winter at a small expense, pot up some of your brightest annuals. You can pot petunias, verbenas, portuiaccas, 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 Children at the age of four years garden. Sweet alyssum seems to like need twelve hours sleep a day. At the age of five, eleven hours seems to heavier, and rose moss has larger and more double blooms. Before potting keep moist, and you will be surprised root cuttings rather than take up the they must have plenty of rest and sleep.

Hilco.

Blanketing the Perennials.

The other day a farmer, who is always doing things on time, was draw

changes of the winter and spring, and also to the addition of readily avail-Take care of the tractor and the able plant food at a time when it is needed to start growth promptly.

Milk should be kept in well-ventil-Cut out ated place, away from cheese, onions, or any other strong-smelling food.

See that your stable has— Plenty of fresh air, but no draughts.

No fumes from manure pit and drains clear and clean. Stalls not boarded up, but grating

in the upper part. Drying room for wet blankets, and dry, warm blankets used for horses if wet and cold.

Stable quiet at night and on Sun-

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 The hardy lilies should be planted to see that everything is perfectly first" slogan into effect, and take time

The jar of the machine when filling will loosen doors and other things be planted. Fresh manure is liable to paratively safe; therefore, see that

ious gas forms in close silos which are partially filled and then allowed to settle overnight. Before the men go into the silo to work the next day, the blower should be run for several minutes. This will

force 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.



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 wat, as the hot water is absorbed into the fabric more readily than cold.