By Russell Adams

get a balky engine to start.

early days of the gas engine era we a shot on first turnover of crank. had superfine gasoline, but the engines I have used this method many times, were so crude that they were difficult and on different makes of machines, in days gone by.

This situation has led to the invention of many devices designed to overcold engine to get up and get after the first turnover, but many of us do not have an opportunity to investigate that plan to please me.

with many makes of gas and oil en- necessary to use considerable heat to

thing is commercial benzine, which bearings.

day, so I am passing it along:

shaving-soap box, in fact in which with a damper which allows the op-I drilled six or eight three-sixteenth- erator to introduce cold air after the inch holes. In a small wad of wet manifold is sufficiently heated.

## "FIRE BLIGHT."

### Bacterial Blight of Apple, Pear and Quince Trees.

in the early part of the season are 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 ever. freshly inoculated through the blos-freshly ino

When a contaminated bee or other insect visits a blossom for nectar or pollen, it leaves behind it some of the bacteria that cause the disease, and these multiply in the nectaries and pass on down the blossom pedicel into the bark of the fruit spur where they the bark of the fruit spur where they produce a canker and kill the spur the hog end of our farm is a bottom.

The one we have is that when the rim was horizontal with onions. Place alternate layers of dows this winter at a small expense, pot up some of your brightest annuals.

If the blighted twigs are allowed to stay on the tree throughout the season 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, or the trunk of the trre, where it becomes apparent as a canter. In cases where the disease does not reach the bark of the thicker branches or trunk before fall there is a tendency for the disease to die out during the winter. But where it gets established as blight canker in the bark of the 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 sup 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

pers and borers are comigs to healthy twigs,

The season of the year is fast ap-cotton waste I placed three or four proaching when the tractor driver pieces of calcium carbide the size of a hould be excused if he is inclined to pea; the wet waste, with the carbide use strong language while trying to in the centre, was then put in the container and the container placed in the Hard starting in cold weather has air intake of the engine mixer. As always been a chronic disease in in- carbide gas is a very explosive mix- Beneath the blue of the autumn skies: ternal combustion engines. In the ture it was seldom that I failed to get

to start anyway. To-day we have with satisfactory results, I have seen splendid engines, but our gasoline has practically the same method used by The swallows dart and wheel and so deteriorated that starting troubles other operators, the only difference beare, if anything, more prevalent than ing that they used ether on dry cotton waste, which was placed in metal con- To turn a quick approving ear, tainer and the gas introduced to cylinders by the air intake. I have seen Then all is silence, far and near; come this reluctance on the part of a 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

times they are not adapted to the ed tendency toward condensation, even Having had considerable experience the carbureter or mixer. Hence it is I linger still before the gate, some of them started on a cold day, not end with getting the engine start. Be still my heart! She's coming now! build next spring.

or a warm day either, for that matter. ed. Low-test fuels require constant I vow, I'm proud of that Jersey cow! 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 condenwith hot water, and while the hot sation will continue all day long; and water is taking the chill out of the if this be the case much of the uncold engine it is an excellent idea to burned fuel will be forced past the prime each cylinder with about a tea-cylinder rings down into the lubricatspoonful 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

can be had from almost any druggist. 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 which may be of benefit to you some of tractors are supplied with a socalled "manifold stove," a simple con-I secured a small metal container— trivance made of sheet iron equipped

at the ted portions of the tree. In doing quainted. If there are strangers at mately half of the phosphate remains this, care should be taken to cut well the party try this by way of breaking in the soil for succeeding crops. Trees affected with this disease fre below the visibly affected portion, four the ice. Trees affected with this disease frequently present the appearance of to six inches, if possible, as the bacquently present the appearance of to six inches, if possible, as the bacHave each person write his name on the growth and yield of fall wheat. having been scorched by fire, hence teria are usually well advanced bethe common name "Fire Blight." The yong the cankered area in the bark. Conspicuous place on him during the the stand of clover the following year. The saw, knife, or shears used should evening. Then by way of starting the stand or clover the conowing year.

The results of these experiments leaves will become a reddish brown be swabbed after each cut with a good festivities, have the boys and girls disinfectant. e.g., corrosive sublimate form separate circles; start the music twigs only may be affected, in other bolic acid. If the canker is in the side, the boys outside. When the and the actual grain grown. cases practically every twig will be trunk or larger limbs the affected part music stops suddenly, the boy and girl should be removed by cutting well standing nearest together must talk acid phosphate (superphosphate) to Trees that are affected in this way around the canker, two or three interests. around the canker, two or three inches very, very fast for a few minutes.

disease, 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 pre-should be carefully gathered and

The handlest thing we have around to fall out. with other blossoms on it, then con- less hog crate. The one we have is that when the rim was horizontal, a frying pan. Add half a cup of You can pot petunias, verbenas, with other blossoms on it, then con- less hog crate. The one we have is that when the rim was horizontal, a frying pan. Add half a cup of You can pot petunias, verbenas, there inches high has an This was then aligned must be and cover tightly until wilted portuiaccas, and almost any of the of the twig, causing canker and death by thirty-eight inches high, has an This was then slipped over the tree, by steam. Add half a cup of butter free bloomers that you like, and many as they go. The leaves of the twig ordinary "slip" door in one end. In and the spokes driven into the ground and fry slowly. Toss with a fork and of them will produce flowers indoors as they go. The leaves of the twig ordinary sup and in one case and the spokes driven into the ground and fry slowly. Toss we then shrivel up, turn brown and die, making the crate let a board extend by tapping various points on the rim be careful not to burn. giving the characteristic free 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 have the most stubborn hog in the carded part.—D. R. V. 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 heavy lifting. If "piggy" does not like always upright for easy filling by the heavy heavy heavy lifting by the heavy lifting by the heavy heavy lifting by the heavy heavy heavy lifting by the heavy h to walk the straight and narrow path oil man and to prevent any accidental forward, why just turn them around leakage. When some fuel is wanted

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



And I stand alone by the wicket here And watch and wait till she draweth

A clear note greets the dying day. While at her feet, mid grasses mellow, Are oak leaves fallen, bronze, and

### A Barn Dance

riot of color; sheaves of wheat stack- hot sun begins to dry the boards. 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.

pieces of brown wrapping paper to carry out the idea of formality and if lime and phosphates on fall wheat you wish guests to come in costume, seeded with clover. you wish guests to come in costume, seeded with clover. the sucker or watersprout until it ments on an improvised table of long ing season and from yields the folreaches the trunk or large limb where boards set at one end of the room and lowing points are noted: a canker is produced loading to death let the guests help themselves to the where the disease is active during cake. Have lemonade or cider to per cent.

The Blight," a most destructive the growing season there is frequently drink. Cover the table with yellowbig plates of sandwiches, doughnuts, yield in every case, averaging fifty Fire Blight," a most destructive and a gummy brown exudate oozing out crepe paper. Use hollowed-out pumpfully improved by the phosphates. quince trees, is very prevalent this from the cankers. This exudate con- kins for serving dishes and lanterns.

3. Size and quality of grain was inguince trees, is very prevalent this from the canadis. This canadis conseason in many parts of Ontario, partains the causal bacteria in immense. Intersperse the dances with old-creased, as well as yield, by phosticularly in apple trees. We have renumbers. During rain storms this
fashioned games. For one dance you
phates.

ceived quite a number of blighted ap.
exudate may be splashed to other
might have sparklers. They are

4. The

# 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

ner of the drive where it turned in they do not touch each other on this. the winter and early spring. Most of safe to use. from the highway. The danger of Use those first that show signs of this mulch should be removed when A poisonous gas forms in closed 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.

it over the top of her, and there you itself. Just another use for some dis-

# For Your Fuel Barrel.

This is a very good way to handle 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 rel is clamped in and ready for ser- -G. R. vice. Care should be taken to have the harrel, so that it will stay right tractor will take care of the work. needed to start growth promptly. ger of its tipping by itself at other will be held upright by gravity.

inches above the level of the litter events of Tehkummah Institute on of this Institute's good they will help in keeping the litter out of the sour milk dishes. Water presented the twin babies born to one direction of a local leader. The Institute of the sour milk dishes was to organize a community of the sour milk dishes. pails placed in wooden store boxes just of their members with a pair of crib tute also presented the school with

Mash hoppers with narrow throats often clog and it becomes a daily job care of the cemetery and assisting the Clinton Institute has placed to poke the mash down with a stick. This can be avoided by slighly enlin provides hot lunch supplies for and are spending \$800 on the improvelarging the throat by removing the the school, including milk. They gave ment of their cemetery. swing, lower front board and by placing a curved piece of galvanized at the back community church and contributed het lunch in two schools. This Insti-

There is no time the poultry keeper cannot find work. But spring is the busiest season of all, as hatching and Dorchester Institute has presented plays.

Hospital for Consumptives. This In-Since the hall has been established the young people of the community have been very successful in putting on the presented plays. that plan to please me.

The light is fading in the west,

The golden clouds have sunk to rest.

The golden clouds have sunk to rest.

The golden clouds have sunk to rest.

The smellows to their nests have whenever it is possible.

Every hour

They are contributing to the London the schools and a couch for the teach-The swallows to their nests have whenever it is possible. Every hour Memorial Hospital. Practically all er's room. They are buying a piance spent on such work in the fall gives the Institutes of Middlesex county are and lamps for the community hall. gines it is needless to say that I have minimize this fault, and it is very While here I stand, and watch and ment you need next spring that is not you an extra hour to do other work assisting with the London Memorial Severn Institute is building up Still wanders she with stately tread in the spring. And too often the equip-Hospital.

Laying nouses snould be innested as went to pay for a piano. A generous a man to coach them early as possible as they are somewhat supply of clothing was sent to the ing them with lunch occasionally. October is a good time for a joyous, safer to keep the pullets out until dry rollicking barn dance, and if you have sunny fall days have taken out a lot not a big, clean barn whose floor is of the moisture. When houses are Husband and I have always tried to You can cover the walls with the gor- you build with wet lumber many things—annuals, hardy perennials, geous-tinted autumn foliage to make a cracks are apt to appear when the and shrubs. We have learned, through

### Phosphates Essential for Fall Wheat.

tario Agricultural College, during the crops and stock to attend to simply wet and cold. You might send out invitations on past year carried on experiments in tention they demand. But not so with

young fruit will turn brown and die disinfectant, e.g., corrosive sublimate form separate circles; start the music, Toronto, London, Simcoe and Welland and mummify. In some trees a few bolic acid. If the capter is in the cide the born autoids. When the exhibitions, illustrated by photographs

> their fall wheat this year at from two hundred to four hundred pounds per

# Uses for Green Tomatoes.

two at the hub, thus allowing the hub Green tomatoes may also be served

## Growing Children Need Much Sleep.

need twelve hours sleep a day. At house culture, for the spikes are the age of five, eleven hours seems to heavier, and rose moss has larger and be sufficient. From the age of eight more double blooms. Before potting 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 up the are to develop strong husky bodies old plants; they will bloom as well they must have plenty of rest and and make smaller plants.—Agnes

### Feeding Screenings Brings Weeds.

If you buy screenings for the chick- ways doing things on time, was drawinches wide is secured to go around ens it does not pay to feed them over ing strawy manure upon his strawthe barrel and be securely clamped a large area that may be used for berry plants, the shrubbery beds about to it by a bolt through the turned-out gardening. The screenings may bring the house and also on the flower bordends. After the clamp is made, two you the finest collection of variegated ers. holes are drilled through it, spaced weeds that your garden has ever By taking pains to use manure clean diametrically opposite, to admit the grown. It also pays to use precau- of weed seed, he has found little hanger bolts, which should be three- tions in the scratch feed that is scat- trouble from weeds the following year. quarters 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 heles bored for them, of the weeds may be left on the range was due both to the protection afford-

Forget that you need exercise when

An interesting item in the year's Northern Ontario are as a little larger than the diameter of the blankets, and to triplets which came flowers and shrubs for the group paris will remain upright even when to another home the Institute gave a and window boxes. Window silver cup. This Institute is taking were also given to the school. school.

of the hopper. The mash will slide community church and contributed not lunch in two delications of the hopper, the mash will slide this year to the Children's Shelter, tute has contributed generously to the down more easily over the smooth Northern Fire Relief and to the Free payment for their community half.

built this fall you will not be able to nearly \$450 through concerts and se-Vernon Institute this year raised stitute is carrying on a sewing class cials. A considerable amount of this ing the boys' baseball teams by getting went to pay for a piano. A generous a man to coach them and by provid-

### Why We Like Hardy Lilies. fit to dance on, then deck the hall built late in the fall it is difficult to make the grounds around our home as where you hold your dances as you do a good job if the lumber is con- attractive as possible. At various would for an old-fashioned barn dance. stantly being soaked by fall rains. If times we have planted many different many bitter disappointments, that drains clear and clean. in the catalogues which no farmer in the upper part. should bother with. They may be

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 silo-filling time. from year to year with practically no attention. Some of them, such as the

There is one important thing to guard against in planting lilies, espeting three or four handfuls of sand

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 hot-

protect hardy lilies from freezing, I inside the silo. Green tomatoes which are solid and line to cover the new with several when the distributor pipe is put up take particular pains to see that it tree guard that was the embodiment firm may be stored in the cellar and frozen hard on the surface. This mulch fits together right, so that there will

# Winter Flowers.

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

# Blanketing the Perennials.

The other day a farmer, who is al-

When the device is assembled the bar- to cause future work of eradication, ed the plants during the temperature changes of the winter and spring, and the clamp slightly above the centre of. Take care of the tractor and the able plant food at a time when it is

Milk should be kept in well-ventil- necessary to get them very wat, as the partially filled barrel planning the dairy barn. Cut out ated place, away from chaese, onions, the hot water is absorbed into the or any other strong-smelling food. fabric more readily than cold

splendid Institute library. This In-

Plenty of fresh air, but no draughts.

Good light. No fumes from manure pit and

Stalls not boarded up, but grating The Department of Chemistry, On-beautiful enough, but the man with dry, warm blankets used for horses if

tention they demand. But not so with days. Stable quiet at night and on Sun-

### Silo-Filling Accidents.

Every year the newspapers contain accounts of accidents which happen at

Last year my husband was seriouswell-known tiger lily, will hold their fill his silo. This man's silo was ly injured while helping a neighbor own, even though entirely neglected, rebuilt one, and some 2x6's which had against practically any weed or grass. been used in the construction, had been This is true also of the Canadian or carelessly left in the top of the sile. exudate may be splashed to other parts of the tree, thus leading to fresh infections.

The control and stamp out this dismany places, so says Professor D. H.

The control Agricultural College.

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The control and stamp out this dismanular profit in the your people in your community actions of the Canadian or parts of the tree, thus leading to other harmless and lots of fun and you can phosphate per acre was more than covered, leaving a substantial profit in every case.

The cost of 400 lbs. of acid phates.

The cost o After that they will look out for the next county was injured so bank that he died in a few days.

cially in heavy or wet soils, and that lessness; but it is certain that a large part of them might be avoided, if the under each bulb, when planting, will ing about it were to put the "safety prevent this, even in quite heavy soils. first" slogan into effect, and take time much deeper than tulips or hyacinths solid and safe before commencing to

The jar of the machine when filling bed, to mix in the soil where they will which at other times may seem combe planted. Fresh manure is liable to paratively safe; therefore, see that While no mulching is required to down on the heads of the men working

kept until nearly Christmas. Spread keeps the surface frozen and prevents be no danger of its coming apart and The tree surrounded by the above some old newspapers on the cellar bot-water from melted snow and ice get-failing on the men. Ladders should be The tree surrounded by the above some old newspapers on the centar bottom and place the tomatoes so that ting down around the bulbs during inspected to see if they are strong and

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.



"Ch! what can I do This long, rainy day?"

Cried Polly, "I'm tired Of nothing but play!" "Come give me a drink,"

Polly stared at him, laughing, Then brought it real quick. She looked all around With bright, searching eyes

Chirped yellow-bill Dick.

Then ran to rock Brother, Hushing his cries. "I guess there is plenty To doe 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

# HEALTH BY DR.

ters through this column. Crescent, Toronto.

Our success in life our busi ficiency and social enjoyment, hend upon physical fitness. T ose ill-tempered man or wor really one who is shwell. As peevishness and spile that the are pature's ways of prost an undue strain. Y erity of such cases are result of such cases are mere result of neglect.

all know, again, that we and to grow old. We all know that whether we grow old grad

or degenerate into beevish i depends to a large extent on t we use ourselves and our heal strength when these are abi Yet only too often we put terious consideration of the and are surprised and resentful its bills are presented for pa This is not to say that we si ways be looking out for trou nothing is so likely to bring it But it does mean that we show our present way of living foundations, for, after all, should be, the normal thing to If health were a thing like riches, something that few achieve, there might be som said in favor of giving it the

### Where Marriage by Capt is the Rule.

But in the ordinary way its abs

not a matter of ill-luck but of

to live as we should. And since

Among the least-known but n teresting of the African nativ the Lango, a tribe which flouris the Uganda district. Unlike many of their neighbo

Lango do not practice any forms of witcheraft, and any w foolish enough to indulge in the arts are neatly clubbed to death tribe has a large number of su tions and customs, however, one most important ones being the away of disease, which takes pl

The first part of this coremo the dislodging of discase from h ing-place by the heating of bill the waving of torches in every When the evil has been driven corts it raising the cry of victor a river or swamp, from which ! not return," writes Mr. J. H. D. There are many cust

for instance, they are forb resh and skin of leon: the fig-tree must them. "No woman may posses perty," continues the author, "

her ornaments and tails" the lat Another custom which surviv this tribe is that of marriage by ture, but, as a matter of fact, the ture" is always ranged beforeh The friends of the brilegroom

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