

Address communications to Agricontext 73 Adaptates St West, Torotal Front in Purebred Sires. The cash value of using a pure-bred bill has been strikingly proven in an interesting experiment carried had been finished together in the same feed bot-a difference in the same feed bot-a difference finishing hrice, but will apparently. Be available fairly generally. Fore-the thus briefly told in the work of the same again a serub sire. The story of the experi-ment is thus briefly told in the work of the same again thus breed by told on the work on on roughage cannot afford to briefly told in the work on on roughage cannot afford to briefly told in the work on the base of straw and de-were colled tor- work of the stever. The same feed bot-a difference again from on roughage cannot afford to briefly told in the work of the stever. The time from the stever the base of a pure-breed as agains a strub sire. The story of the experi-ment is thus briefly told in the tever the influence of a pure-breed as agains a strub sire. The story of the experi-ment is thus briefly told in the base of the stever the influence of a pure-breed as agains a strub sire. The story of the experi-ment is thus briefly told in the base of the stever the influence of a pure-breed as agains a strub sire. The story of the experi-ment is thus briefly told in the base of the stever the influence of a pure-breed as agains a strub sire. The story of the experi-ment is thus briefly told in the base of the stever the influence of a pure-breed as agains a strub sire. The story of the experi-ment is thus briefly told in the base of the stever the influence of a pure-breed as agains a strub sire. The story of the experi-ment is thus briefly told in the base of the stever and the base of straw and de-pending an the set of the stever. The story of the experi-tion. With a the set of strue the stever and the set of the stever and the set of the stever. The story of the experi-tion. With a the set of the stev American farm paper, due entirely to the influence of a pure-bred as against a scrub sire. The story of the experi-ment is thus briefly told in the words of the producer himself: "Both steers were calved in the spring of 1918, their dams being the same kind and quality of cows. They were put to-gether during the winter of 1919-1920. They were turned into the same pas-ture in the fall of 1919 and fed to-gether during of 1920 and put it to the same feed-lot on December uary 15th, when about 20 lbs. of singe at 5 to 6 lbs. of corn were added to their daily rations, until March 20<sup>(1)</sup>, when they were shipped to Sp. ane for sale. The steer sired by a purebred bull weighed 1,410 lbs. and pendimentation of the spectrum of the spectrum of the same feed, and the source strue in the fall of the same pas-ture in the same feed states. This means that ground corn may enter largeiy into our Canadian ra-tions. A mixture of 4 parts bran, 2 parts corn, 2 parts oats and 1 part oil meal would be an excellent concen-trated substitute for a roughage. Even bran and corn, as these concentrates are likely to be the most easily pro-generation of the produced by the states bran, 2 parts corn.

The general crop situation in On-tario during the present season indi-cates the necessity of radical changes in the feeding of roughage this win-tar. They have been utilized in the past.

cates the necessity of radical changes in the feeding of roughage this win-ter. How may roughage be saved? The advisability of cutting hay and traw and of mixed feeds—By increas-ing the labor of feeding in the cutting be maintained on a ration of concen-trates. This is neither practical, econ-trates are the substructs, if any? It trates are the substructs, if any? It trates are the substructs, if any? It the advisability of cutting hay and straw and of mixed feeds—By increas-ing the labor of feeding in the cutting trates are the substructs, if any? It the advisability of cutting hay and straw and of mixed feeds—By increas-ing the labor of feeding in the cutting trates are the substructs, if any? It hay, cut straw, and whatever meal is being fed, there is little doubt that a "Indeed! What for, I should like to "Indeed! What for, I should lik omical, nor necessary, however. In being fed, there is little doubt that a very brief form the situation may be considerable saving of roughage may approached under the following head- be secured. Less energy is required

approached under the following head-ings. Care in feeding—Possibly in 75 per cent. of our live stock farms hay and straw have been overfed. With the mows full and hay cheap, our live stock have been asked to obtain the nutrients necessary for their main-tenance and growth by handling large quantities of crude fibre with a com-paratively small percentage of nu-trients. Under these particular condi-tions they have come through the win-ter at least fairly well. With hay and straw at a premium, however, the ter at least fairly well. With hay and straw at a premium, however, the question arises to what extent can roughage be cut out of the ration of the horse or cow and substituted with other feeds which are procurable. Very few feeders have ever had occasion to weigh the hay which they are feeding the live stock. The manger is filled is considered that the standard re-contimendation for the feeding of hay to horses is at the rate of 1 lb. to every 100 lbs, of live weight, it will

to notes is at the rate of 1 in the contraction in the inging recommended to rear every 100 bbs, of live weight, it will either mixed with cut feeds, distri-be appreciated that many horses have, buted in the undiluted form over hay in the past, eaten hay for their own or straw, or diluted with water and

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Maritime

are particularly

50 per cent. and replace with some of the grain mixtures recommended. The man who does not take every possible step to hold over his stock,



can be killed by rubbing on a little camphorated oil.

Sp. ane for sale. The steer sired by a purebred bull weighed 1,410 lbs. and sold for Sc per lb., or \$112.80. That score. and sold for Gc per lb., or \$59.40, the difference in the selling price of the staw. It must practically all be fed. A parts bran, 2 with the score s

Inroughout the animals were fed and<br/>grazed together. The load of his own<br/>or concentrates supplied, straw forms<br/>can be built in any style desired—can<br/>have solid walls, or they may be made<br/>or or concentrates supplied, straw forms<br/>can be built in any style desired—can<br/>have solid walls, or they may be made<br/>order that the digestive and excretory<br/>slatted, with plastering lath. The<br/>organs may function properly, straw<br/>latter plan might be preferable in<br/>most climates, as the air could enter<br/>stated, with plastering to the<br/>safe to say that there will be very<br/>little bedding wasted this winter in<br/>havy and Straw.semi-dark, hens prefer them. They<br/>can be built in any style desired—can<br/>have solid walls, or they may be made<br/>order that the digestive and excretory<br/>slatted, with plastering lath. The<br/>organs may function properly, straw<br/>latter plan might be preferable in<br/>most climates, as the air could enter<br/>safe to say that there will be very<br/>lower nest should be about three<br/>little bedding wasted this winter in<br/>havings are available in many places.<br/>The general crop situation in On-<br/>There is no reason why considerable<br/>nest.semi-dark, hens prefer them. They<br/>can be built in any style desired—can<br/>have solid walls, or they may be made<br/>in the stated, with plastering lath. The<br/>organs may function properly, straw<br/>latter plan might be preferable in<br/>most climates, as the air could enter<br/>state to say that there will be very<br/>lower nest should be about three<br/>havings are available in many places.<br/>to alight on in flying up to the top<br/>nest. They

## He Got One.

of yourself, Tommy. See what a lot of

know?

"Barnyard golf links" are a pretty tacked colonies should have a bunch

## Simple Methods of Preserving Vegetables

The World's Live Stock

No colony house should have more than fifty chickens in it at one time. More eggs, less feed and more money has been the result of culling out the poor hens early. A ragged bird that has just begun to molt should not be culled now just the war show decreases but every country in Europe, excepting only Spain and Portugal, is in the same weigh five pounds to the pair is a waste of food, for after their combs grow they are classified in market as "old roosters," which bring consider-ably less in price. Do not overcond being Canada's principal strains from Rus-in hog products. Returns from Rus-éia and Austria for obvious reasons are not given, but Czecho-Slovakia shows a decline of 30 per cent. in cat-

## Robber Bees.

During a honey dearth while the weather is still warm, the bee-keeper should in all his work carefully avoid doing anything that will excite rob-bing, for robber-bees are a constant annoyance and danger in the apiary. Bees that have nothing else to do in warm weather will readily yield to any temptation to obtain honey in this way. After more or less fighting they way. After more or less fighting they will overpower any very weak colon-ies, especially those that have lost their queen, and will carry the honey to their own hives. Robbing is fre-quently started by the carelessness of the bee-keeper during manipulation, especially when removing the honey. In dealing with this subject in Bul-letin No. 26. Second Series available letin No. 26, Second Series, available at the Publications Branch of the Department of Agriculture, Ottawa, the Dominion Apiarist points out that to prevent robbing, no colony should be allowed to grow weak and no honey or syrup should be exposed in the apiary. If robbing has begun, the at-

wor't get

man can see at a glance where he is making money and where he is losing it.

Making the Old Farm Well Do New Tricks

h No more wading through anow-choked paths on a freezing January day for the farmer, loaded down with immense pails of water for the barn-ward device in the transformer of the pump, ex-and the transformer of the pump, ex-state enough pressure on the water in

yard drinking trough! No more the trap to secure a constant flow from the faucets. Not even a city on "blue Monday" for the farmer's water-system could maintain a stead-ior pressure on its pipes

is the transfer of the section of the sect ing the best location if he wants to get double use from his gasoline en-chinery. A good place is the base-ment of the farmhouse, from which ippes can easily be run to the kitchen and bathroom upstairs, as well as to hydrants in the yard and the stable. A gasoline engine or electric motor operates the air-compressor by means of a belt. The compressor sends the air in the tank through a galvanized warants it. The system furnishes plenty of "show country places" may even gratify their cravings for a flup pol or a fountain, if their water upply warants it. The farm owner need not be fraid

air in the tank through a gaivanced wirrants it. iron pipe into the well, driving it into the pump, which is submerged at least six feet below the surface of the gasoline engine. In fact, he may use water. Besides the air-pipe leading the engine at the same time to furnish into the pump, an air exhaust-pipe electric lights, grind feed and separleads out of it, also a water discharge-leads out of it, also a water discharge-pipe which connects with the air-trap the cost of his water-supply. All of and the faucets. The pressure of the which means that the pump-and-air-air, driven by the compressor, forces the water downward in the pump for itself.

cylinder and upward again through There is no best water-system for the water discharge-pipe. As it travels farm homes, but there are many good out of the well to the air-trap and the ones. Whoever has a gas engine or faucets, the air escapes into the upper electricity should

ing the hour before sunset, or early in The fall hotbed will sup the morning, or under a net tent. It with a few fresh vegetables a is advisable, after the honey flow is the late fall and early winter. Select ended, to contract the entrances of all the warmest and sunniest spot in the It with a few fresh vegetables hives. One can tell if a colony is be-garden, where water never stands, and ing robbed by seeing the robbers enter hurriedly with the abdomen contract-fifteen to eighteen inches deep, six feet wide, and as long as the hotbed tended, flying straight home.

Destroy weeds this fall and they preferably of two-inch boards for a a chance to grow next permanent structure, having the rear or north wall fifteen inches high and the south wall eight inches above the A neighborhood without a commun-ity bouse is like a family without a home. tion. Fill the pit with fresh strawy stable manure to a depth of fifteen

A few minutes given at a definite time each day will keep a record of the farm business; and with accurate figures at the end of the season a the seeds are to be sown. the seeds are to be so

A septic tank may save your life.

# The Welfare of the Home

### Dealing With the Angry Child-By Jennie S. Clough.

be carried out either by sating with duct will be too saity. Fill the clock only three-qauters full, placing a dry salting without Fermentation. In brine, cloth over the top, then a plate turned front a mother, one of the hardest is that of meeting in the wisest way the undesirable traits that appear in chil- a temper be careful not to leave him sufficient for a five-gallon crock.

"Oh, but I got a certificate once, uncle," said Tommy. "Indeed! What for, I should like to

"For being born."

sure sign of a happy farm or com-munity. Pitching horseshoes is a one hundred per cent. Canadian sport. diver grass or weeds thrown over the little as possible, and then only dur-

While many garden vegetables can be stored in a well constructed cellar for use during the winter and spring months, there are advantages in pre-serving some of them in crocks, bot-tles, and other containers. A simple method of preserving vegetables by fermentation and salting is described in Bulletin 93 of the Experimental Farms, Ottawa. Such containers as old kegs, butter tubs or stone crocks may be used. The preservation may be carried out either by salting with out fermentation, fermentation with

half

cake are particularly to be recom-mended. Oats in itself is from 10 to ally be cheaper to cut down roughage

cow supplied with a well balanced meal mixture and ensilage it will be evident that hay is in the very great majority of cases overfed to cattle. Apparently the feeding grades majority of cases overfed to cattle. Even for the producing dairy herd where no other roughage appears in the ration and where it is supplement-ed only by concentrates the very limit of hay that would be required would be 20 lbs. daily with say 8 or 9 lbs. of oat straw and this for the cow that is being held over for better times, and

being held over for better times, and is will describe the situation in The value of chaff and leaves—In and a weight. this put a plate or a piece of board and a weight. A clean brick or stone this will describe the situation

this will describe the situation in many districts that cutting down the quantities used in past feeding prac-tice a full 50 per cent. and substitut-ing with a few pounds of meal would not only effect a great saving in roughage, but incidentally would bring way to the manuer pile or barnyard barn floors and too often fird their roughage but incidentally would bring way to the manuer pile or barnyard brine enough to cover, add a brine not only effect a great saving in roughage, but incidentally would bring the cattle in question through in as good or better shape than had been the case where roughage was fed in unlimited quantities. More silage and roots In many

More silage and roots-In many variety of cases and conditions arise, where it will not be disturbed and More silage and roots—In many sections of Ontarlo particularly, hay may be substituted by the use of more ensilage and roots. Where succulent roughages such as the foregoing are available the quantity of hay fed may be cut to the very minimum. These feeds will, however, not be available to any great extent in many parts of Quebec and the greater part of the great extent in many parts of or less experimentation will be let better to soak the beans for two notes and the greater part of the quired by the individual feeders in in the morning, changing the water ne Provinces according to cutting down little by little the rough-several times, and also changing the term to be the term of the several times. meal substitutes—To replace one-half of the ration where dry roughage ration of the cow, oats, bran and oil in present indications. Meal substitutes—To replace one-feed and replacing it by minimum quantities of concentrated or grain rations. If hay continues to increase ration of the cow, oats, bran and oil in price and if grains and concentrates water while cooking, rather than to

allow them to soak over night, as long the soaking softens the beans.

Fermentation With Dry Salting. In preparing vegetables for fermentation with dry salting, the vegetables the corn were eaten alone.

### Fermentation in Brine.

five-gallon crock is used, two and onegallons of brine will be necessary. This must be covered with a and over mentally and we shall be the trouble out, like the high-tempered cloth, a piece of clean board or a surprised at the peace and quietness child, and it is unwise to put him by plate, and a weight. The containers within ourselves that will follow.

must be left in a warm place until the fermentation has ceased and then taken to a cool place, where it will not be disturbed after covering with hot paraffin wax.

When salting cucumbers, a layer of dill and a handful of mixed spice may be placed on the bottom and top of the crock. Green tomatoes may also be color and flavor. Fermented corn may used in the preparation of such

anusement only. When it is realized that 8 or 9 lbs. of good clover hay and 4 or 5 lbs. of a straw is all the roughage needed for the milking cow supplied with a well balanced majority of cases overfed to cattle. Even for the producing dairy herd where no other roughage appears in the ration and where it is supplementlike magic. Parents who appreciate no outlet for himself like the angry fun and who are the real companions child who vents his temper in screams of their little ones have the happiest and passionate talk. His bad temper Cucumbers, string beans, green to-matoes, beets, peas, and corn may all be preserved in brine. Wash the vege-tables, drain off the water, and pack in a crock until nearly full. Prepare a weak brine, using one-half a pint of vinegar and three-fourths of a cup of salt to each gallon of water. If a thee," so, when the children are noisy of salt to each gallon of water. If a thee," so, when the children are noisy of salt to each gallon of water. If a thee," so, when the children are noisy of salt to each gallon of water. If a thee," so, when the children are noisy of salt to each gallon of water. If a thee," so, when the children are noisy of salt to each gallon of water. If a the says, "My grace is sufficient for the says and three-fourths of a cup of salt to each gallon of water. If a the says are the the the the to the says are the theory of the transfer the says are the transfer to the says are the t thee," so, when the children are noisy and naughty and our nerves seem just about in pieces, let us say this over do with such a child?

> Granted that we have sympathy and poise ourselves, we are in a fit condi-tousy about as soon as possible. tion to help our children to overcome is even more necessary for him than their faults. Often children are cross for any other type of child, for we and naughty because they are over-tired, over-excited or hungry. We must be sure that their naughtiness have the companionship of his brothdoes not come from some physical ers and sisters, or perhaps he can help reason that we can help. If a child is you in what you are doing. Work is prepared with dill and spices. Beets should not be peeled or sliced before being fermented or they will lose their uite ourselves, but very firm, letting is inclined to live his little but for him see our strength and poise and of himself. This the then trying to find out what has stir- ally reserved and takes of dishes as chowders or omelets, where the acid taste may not be objection-able, as it might be to some people if nerves will be freed and he will have an outlet for his passion. If he seems

He won't talk himself as you would the high-temper ed child. Give him something to be

What can