Address communications to Agronomist, 73 Adelaide St. West, Toronto.

oats, corn, corn fodder and marsh hay.

Arswer:-A ration made up of corn fodder and marsh hay as the roughage and ground oats and corn as the concentrates lacks both nitrogenous elements, which are necessary in milk production, and succulence. It would be well to make the grain ration onethir i each of bran, corn meal, and oat che; An even better addition would be clicake meal, about one pound per day Clover hay would make a valuable addition to the coarser portion of the ration. One feed of this per day would be a suitable amount. From 1. to 25 pounds of either turnips or mangels a day to each animal would help the succulence of the ration.

B .: Would you kindly give me an opinion on feeding rye to dairy cattle, Le., in connection with other feeds, such as oats and corn?

Answer:-Rye is an unsuitable a son that this grain is subject to 1 - disease of ergot. Ergoted grain is liable to cause premature birth and should therefore be avoided with all breeding animals.

and I have no milk, only what I buy therefore be removed and the house for the recording and registration in and that is half water. How would given a thorough disinfecting wash, tankage go and how much should I preferably put on by a spray pump. feed to each one hundred pounds of A three per cent. solution of creolin ing of the executive committee of the the corn should not be piled on shelves weight of pigs? Please tell me where or a hot lime wash should be effective.

I can buy it and its probable price. mental Farms as a result of experi- the sheep should by all means be the bureau on the basis of a report ments carried on in the feeding of given an outdoor run. In fact they prepared by the Registration Comtankage to swine, have adopted two would be the better for this in any mittee of the Council. systems of using this feed, which is case. found to be a very useful-substitute for milk. One is to expose the tankage in an open box in the pen and allow that my five-month-old pigs have in the same sense that inventions are care, the more you take out in crops. the pigs to help themselves. At the piles? What can be done for them? same time they are give satisfying Answer:-The ailment complained rations of either dry chop or sloppy of is probably due to constipating feed. The other system is to mix the foods and the need of exercise. This tankage with the chop and feed it can be corrected by adding a small either dry or in sloppy condition proportion of raw linseed oil to the When the tankage is mixed a propor- ration, feeding liberal quantities of tion of from 5 to 6 per cent. of the roots and allowing for a daily run in a mixture is used. When pigs are al-|sunny yard.

an economical mash and the poultry- paper.

man knows what he is feeding.

through beef scrap or fish scrap.

Right Type of Hog Essential

To Export Bacon Trade.

of the Live Stock Branch of the Fed-

importance for Canadian becom-

deaned.

There seems to be a value to feed-

ing milk that cannot be expressed eas-

fly in cash. It has the vitamines which

buttermilk:

E. R. L .: Please prescribe a proper lowed to help themselves they usually

of the whole ration. the modern abattoir. It is usually trum, eleven died. sold by feed merchants and the larger seed stores.

sheep in an old hen coop this winter. destroys the tubercular germs but eyes, twice a day. Keep it up several

not remain on human beings. It would dams: be well, however, to cleanse the house of this class of vermin. Poultry lice are usually found in cracks and cre lvices or behind boards near the roost-R. K .: - I have twenty-two fall pigs ing quarters. All locse boards should Unless the building is much larger in Ottawa on Nov. 13, it was decided Answer:-The Dominion Experi- than the term hen coop would suggest,

Shipping Potatoes in Winter.

The use of milk in producing eggs and poultry meat is becoming more ing paper held in place with laths, mental and spiritual development of ly have happened, and those which around them, we could have what we general as the good results are evident. Breeders who do not produce laid on supports running lengthwise. telling stories is to give joy, and of believe. milk at home can often buy the commercial semi-solid buttermilk. Experiments have proven that five pounds of floor and extending from the centre the narrator. sour skim-milk is about equal to a pound of the commercial semi-solid with vertical air-passages fermed by is according to the age of the hearers, tive powers are very alert, and little false walls built four to six inches Nursery rhymes are used universally children live almost as much in the The cash value of the sour milk for from the car ends. False walls, also, as the very first stories, for they de world of make believe as they do in other part of the house. I enjoy the think a rocking chair is too good for poultry feeding is rather difficult to should be built a few inches from the light children who are still mere bather spicy smell of gingerbread, but need the kitchen?" and I replied that no determine, but a fair price of seven sides of the car. The false floor bies. The jingling rhythm first at minds crave fairy tales. cents per gallon has usually been con- should not cover the area between the tracts the attention, and after many Nature lessons may be taught beausidered fair. The commercial semi- doors. Here a stove is installed, if repetitions, as the little minds develop tifully and impressively through solid buttermilk usually costs close to the shipment is likely to pass through the words begin to convey mental pic- stories. Children enjoy these, and all four cents per pound, although the severe weather. A false door should tures, and the story is gradually the same time gather much valuable ciency. The woman who for eleven the kitchen than does the picture, An cost is greatly influenced by the am- be built on one side for a stovepipe understood. Many babies only two information. ount purchased and the freight rates. and bulkheads put across the car at years old recognize and enjoy most of Boys are especially interested in looked into the oven was wasting bed in the spare room where the guest There are quite a few poultrymen either side of the doors to form a the Mother Goose rhymes. \_\_\_\_\_ true stories of heroes, and many his matches, endangering her life and the is supposed to sleep peacefully! A mixing their own dry mash by pur- "well" for the stove. These false There is a slight gap between the torical facts may be presented in this house, and cutting her efficiency at comfortable, substantial rocker, either. chasing the semi-solid buttermilk for walls, as well as the centre bulkheads, stories given in story-books. We have way. the protein and then adding as much rise well toward the ceiling, and with found that two-year-old children Several recent collections of chil- the lighted match was no help in nite a place in the kitchen as the sink, home-raised grain as possible, plus the false floor form two large bins greatly enjoy simple tales relating dren's stories are indexed according the necessary items purchased off their around which the air continually cir- their own personal experiences, when to the moral lessons they contain

Care of Barnyard Manure.

The conservation and application of farm-manure is a matter of vital improduce growth and vigor. Breeding stock that have milk in their ration portance to farmers, as the amount of ed 'Bow-wow.' Then along came his story itself. Perhaps this is the available plant food in the soil is the sister, and said, 'Don't cry, little Bro- supreme test of a good story-teller. seem to produce more hatchable eggs than hens which get all their protein principal factor in determining crop

In feeding liquid sour milk and but-Barnyard manure is the most effectermilk the dishes should be frequent- tive fertilizer and best soil improver ly scalded and scrubbed with a corn known. Each ton contains approxicob to loosen the gummy accumula- mately 10 pounds of nitrogen, tions. Dirty milk seems to be a source pounds phosphoric acid and 10 pounds of digestive troubles. Do not feed sour of potash, supplying three essential milk in any type of fountsin which elements of plant food. For increascannot be opened up so you can see ing soil fertility farm manure is unall the inside when it is rinsed and equalled and it is one of the most valuable assets of the farm. The more manaro the larger the crops, the larger the crops, the more live stock that can be kept which in turn will produce more manure and increase Addressing a body of senior officials crop production.

All the liquid manure should be eral Department of Agriculture at Ot- saved as it is far richer in nitrogen tawa a few days ago, Dr. J. H. Gris- and potash than the solid excrement. dele, Deputy Minister of the Depart- The floors and gutters in the stables ment, pointed out that at the present should be sound and liquid-tight. Suftime Canadian bacon on the British ficient litter or bedding material market is losing rather than gaining should be used to take up all liquid. ground. This conclusion was drawn | Manure for corn, which is one of from a study of markets while in Eng- the principal crops entering into rohand a few weeks ago. Compared with tations of all stock farms in Eastern Danish bacon, which easily tops the Canada, can be applied as made by import market, Canadian sides were drawing it directly to the fields and too short and in many cases too thick spreading it where corn is to be sown to command the best prices. The dif- the following season. This practice ference in price between Canadian and means not only a saving of labor but Danish was about three cents per prevents losses in plant food from pound . This was on the wholesale leaching and heating.

market, and the limited study that With the limited amount of manure could be given to the retail market usually at the command of farmers, it indicated that a wider difference be- is not desirable to plow it under too tween Canadian and Danish becon was deeply. If well incorporated with the the rule Dr. Grisdale expressed con- first five inches of soil, it will by its fidence that hog grading, now being fermentation, warm the surface soft established, would tend to restore to and increase its moisture-holding capacity and thos nourish and feed the Canada her lost prestige on the British market, which is the only outlet of young crop when it is least able to forage despite for the food.

The Importance of Colostrum. This big word colostrum refers to the first milk given by the cow after becoming fresh. We have always thought that the value of feeding the first milk to the calf was to clean out and start the digestive organs in the performance of their proper function. It appears from tests recently made

that this position was wrong.

Experiments running over two ration for my cows to supplement consume a slightly larger proportion, years have established the fact that reaching in some cases to 7 per cent. this colostrum is a real germ killer. It destroys the dangerous germs The price of tankage varies accord- which hurk in the digestive tract of ing to its protein content. - Tankage the young animal. Some of the calves containing from 50 to 60 per cent. of in these experiments were given laxa- that the necessary assistance for carprotein usually sells at about \$55 per tives to make certain that their bowton. The lower grade which contains els moved regularly. These calves about 45 per cent. protein, has a mar- were much weaker than those receivket price of about \$45 per. ton, so ing colostrum and the death rate was that the cost is about the same in as high as among those not getting Ottawa. either case in relation to the value of this first milk. Out of twenty-two, the feed. Tankage is a byproduct of calves which did not receive colos-

Calves from tubercular cows can be; raised without exposing the young sharp winds, they become blind animals by heating the colostrum to Treatment, five or six drops of a sat-W. H .: I am going to keep my 140 deg. F. for thirty minutes. This urated solution of boric acid in the Will chicken lice stay on sheep? If does not decrease the disease-resistant days. they will, what should I use to remove or immunizing properties of the colostrum. To prevent thickening the col- road, put the blankets on. Have horses Answer:-It is presumed that the ostrum should be heated in a double sharp-shod on icy roads. building tormed a hen coop is some- cooker or in a pan placed in a bucket thing more than the name implies, of hot water. A large number of rather a house in which fowls have calves were raised on colostrum thus r: in to feed to dairy cows for the been kept. Poultry lice are quite un- treated and are doing as well in every likely to remain on sheep. They do way as the caives which nursed their

## A Canadian Plant Registration.

. A movement has been set on foot Canada of new varieties of herbaceous plants, shrubs and trees. At a meet-Canadian Horticultural Council, held to proceed with the establishing of

The registration proposed is intended to protect the name of a new var-C. R.:- Can you tell me the reason lety and the rights of the originator The more you put in of fertility and

protected by patent rights. The registration machinery will include provincial representatives, as well as committees to deal with different classes of plants. Applications will be first dealt with by provincial reprewill then pass his opinion on the merits of the plant, and registration will only be given with the sanction of the Registration Committee. The proposition has been laid before the Dominion Minister of Agriculture, who approves of the plan, and gives hope The Secretary of the Registration Committee and also of the Council itself is Captain L. F., Burrows,

### Winter Pointers.

When sheep are exposed to cold

When you stop the team on the

ing in litter, they do not mind the cold.

### Seed Corn Needs Air.

is stored. The air should get to every kernel of the ears. This means that or even laid on the floor. The best plan is to sling it up with twine or stick on nails so that no two ears touch each other. This will provide for the free circulation of air and thereby increase the germination.

Farming is a game of put and take.

Water stock in the barn rather than turn them out in stormy weather. pay to rough them through the winter. Get 'em ready for early spring

Give air a chance where seed corn

# Parents as Educators

Making the Most of Stories-By Mary Frances Davis

the mother of small children is the ing, and stood up, and smiled at all My own kitchen has a door and winability to search through her treasure- his friends." Mothers will find ample dow on the south, and two halfhouse of stories and find just the right material for these home-made stories windows over the sink on the west. one for the need of the moment.

To make a box car safe for shipping eager to listen to any interesting one, brief.

neighbors or elevator. This makes culates. The bins should be lined with told in a clear, direct manner. For This method of classification is very instance-"Once a little boy named useful to mothers who like to use Preston went out for a walk, and he stories as a means of discipline. fell down and began to cry. His skillful story-teller may relate her friend, the squirrel, ran down from a story with the idea of correcting tree, and looked at him. Then his big some childish fault, without losing friend, the dog, ran to him and bark- the fresh, appealing charm of the

This allows a free air channel, four course this primary aim should al- Children of kindergarten age deto six inches deep, below the false ways be uppermost in the mind of light in fairy tales, because they stim-

THE ROAD TO SUCCESS.



# Walk Into My Kitchen!

By Marjorie Sims

Why should not my kitchen be one Cretonne is not good because it does sentatives, next by the Registration of the most attractive rooms in my not launder satisfactorily. Heavy un-Bureau who will determine whether or house, since I spend a larger propor- bleached muslin is not lived, either, not the name asked for is already in tion of my time there than in any because it shuts out too much light.

pens), then carrying them back again -some to be put away in the pantry, room-the miles did not add anything to our zest for housework. .

The floor was always dark because a dark floor did not show spots. The walls, ceiling and woodwork were dark green for the same reason.

Those readers of this page who have never worked in any but bright, cheerful, sunny, small, convenient kitchens can never appreciate them as Keep fall pigs growing. It doesn't I do mine-after the kind I have described.

. I decided that my kitchen was too big and I find now that the ten by If the fowls are kept busy scratch- twelve floor space is all I need even for my large family. Our house has a living room in which the family can "live" so I do not need to plan on lower window is opened the lower using the kitchen for anything more than kitchening in!

to be looking at while working, that is a pretty seersucker material on the what is the use of staring at barn, alley, or hog pen all the time? The This material comes all white or white windows over my sink look out on the background with colored stripes. road, and on some days I have a movie Finished with a simple little cotton all of my own. The other window, full length, gives me a view of flower and vegetable gardens and the driveway. Just grass and trees make a restful view.

The Best Position.

I really had some things to enjoy in the old kitchen. One was the oreeze from the south and another was the shaded west window that let enough of the afternoon sun in to keep things cheerful. The tree outside the west window saved us from a One of the most valuable assets of ther.' So the little boy stopped cry- hot room when getting supper ready. in every-day happenings, and should I have been in many delightful south-All children love stories, and are use simple words and keep the action cast kitchens but I wanted the east side of our house for the long living potatoes in weather that is below but by giving careful thought to the The stories chat naturally follow room and sun parlor. I have always of the car must be covered with build- make them contribute directly to the which relate incidents that might real- and then built the rest of the house After papering, a false floor should be her children. - The real purpose of open up the world of fairies and make wish and the kitchens would not be

Proper ventilation makes such a big clear out of it." Well, may be I should ulate the imagination. In this stage difference it gives us a cool room feel that way, to,, if I had to work in of the car to either end and connecting The simplest way to classify stories of mental development the imagina- to work in when necessary and pro- her kitchen. Mine is not the kind I vides a way to draw off the odors of am always wanting to get away from cooking that we do not wish in the I always announce to the whole family thing is too good for the kitchen if it that I've let the potatoes boil dry or is built to serve its purpose. Spindlethe eggs scorch?

> turning, lifting or taking food out range, or table. At least I think so! Later on she found that she could get plenty of light into her oven by simp- make any kitchen cheery, are its size, ly turning the stove around.

> Light should come from over the left shoulder. If it does not, we work dark green kitchen of my girlhood, my in our own shadows. For this reason kitchen of to-day is comfortably small a central light is not satisfactory; each working space needs its own light. I had one light put in over the sink, like to look out of its windows and one near the range and a third near watch passerby on the road. And when my mixing cabinet. I might have had I am tired and want to rest a minute. a central fixture into which to screw a three-way socket. Then I could to go through the dining room or up. have used three cords and had my three lights wherever I wished. If I spot into which I can "drop." could not have had electric lights, it would have been easy to have shelves built near or over these various working surfaces and put lamps on them. Question of Curtains.

but only certain kinds, of curtains, it, too.

use. The Dominion Horticulturist other one room, except my bedroom? My curtains are made of dotted Swiss, The kitchen I grew up in was big. thinly starched, and ironed in pleats. It took an endless time to mop. The to give my windows the fresh, crisp window looked out on the hog lot and look I love. Bacause of the amount all I could see was mud. The stove of pleasure I get from these curtains came out in the middle of the room I am perfectly willing to spend the and I had to walk around it to get time it takes to iron them. If you back to the sink. The pantry was do not have the time or desire for across the room from the stove and curtains like mine, try this type: get rying on the Bureau will be provided. the table and the miles to be walked very sleazy, thin unbleached muslin, in bringing dishes from the dining for sash curtains. Crochet loops across room, across the kitchen to the table each end and run the curtains or two by the window (washing them while rods one at the top of the sash and we gazed mournfully on the hog the other at the bottom. These curtains do not blow out over things when the windows are open and can and some to be returned to the dining be pushed aside to let in as much ight as desired. If the rods are fastened to the window casing, the curtains can be raised with the window. They do not need ironing but are simply washed out at night, stretched on the rods and by morning they are dried in pretty, fresh folds. I use colored loops to make them more

> Dutch curtains for the full lengthwindow are satisfactory. These consist of a pair for each sash, those of the upper sash being finished at one end with a heading and at the other end with a hem. Finish the pair for the lower each with a heading at each end and run them on two rods which are fastened to the casing. When the eash curtains slide up under the upper pair. Light can be let in from or shut There's so much beautiful in Nature out from either sash as desired. There market which does not need ironing. edging that costs a few cents a yard, it is most attractive.

attractivo.

Gingham curtains finished with a rick-rack or plain bands, crossbarred dimities and swisses are all satisfac tory materials.

The Cozy Corner.

My cozy corner does more than any other one thing to make my kitchenand therefore myself—cheery. I sat considerable time in that dark green kitchen, on a straight, ordinary "kitchen chair" waiting for cake to bake or for the tea kettle to boil or watching the meringue that had to be snatched out of the oven at just the right second. I do not mind sitting in the kitchen I have now and I find

my friends and neighbors like it too. Over by the long window I have a comfortable little sewing rocker. freezing, the floor, walls and ceiling selection of her stories a mother may these fall into two classes, those said that if we built our kitchens first There is a book shelf under the window sill, because I like to read some thing besides a cook book once in a while. One neighbor said to me, stuck into the only corner left for "whenever I have a minute to rest I want to get away from my kitchen-Another neighbor said, "don't you legged rockers no longer good enough Good light is necessary for effi- for the parlor have no more place in years lighted a match every time she Indian Massacre, hanging over the least in half because the hand holding wicker or wooden, has just as defi-

> The things which it seems to me, its coolness, its brightness and its coziness. And so, in contrast to the and cheerfully bright. I say this because it could be glaringly bright. I I can rest right there, and not have the hall to the living room to find a

I keep a pot of parsley or some other green growing thing, in the window sill -What a difference it makes! It would have cheered up my old dark green kitchen and I knowi. Curtains have a place in the kitchen curtains would have done worlds for

## The Trees Don't Strike.

all the news about the coal and rail- ly dependent on coal. These things in way strikes, I happened to be taking turn will help to conserve the world's a ramble through the woodlot. In the coal supply, which is in danger of becourse of my walk I passed several ing used too rapidly in our modern fine piles of all-body maple stovewood enterprises. So that we can see that that was cut last spring and is sea- even strikes may serve useful pursoning properly for use next winter. poses never dreamed of by those who It is true that we only meant to use it promote them. If we haven't sense in the kitchen stove, but if there is enough to practice reforestation and any shortage we will not find it nec- conservation Providence makes use of essary to burn the furniture or tear our struggles and foolishness to lead up the floors to get fuel to keep us us to the right course.-Peter Mcwarm. We went through a winter in Arthur. the war without using the coal clove, and can do it again. Of course coal is handier to use, and needs less attention, but if the coal operators and tained under the rules; of scientific their employees will quarrel it doesn't forestry, drawn upon for fuel annumean so much to us as it does to city ally, would make about half of the people. The woodlot is a kind of in- population of Canada wholly indesurance for the home that is worth pendent of the coal miners and the keeping up. A shortage of coal for coal mine operators in the matter ed fuel will stimulate reforestation in the keeping the home fires burning. country; for many, farmers already realize that it is not safe to be entire- The man who works late may cates ly dependent on outside supplies of up with his work, but the one who fuel It will also promote the develop- starts early keeps shead of the

ment of electricity for the transportation companies, and all users of One day, this summer, after reading power see the danger of being entire-

## Value of a Woodlot.

A woodlot on every farm, main