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

contain animal food. This can be supmass or by feeding plenty of sour milk. Green food is a tonic for the birds and needed to keep them in the right condition for laying. It can be supplied in the form of mangels, cut clover, cabbages or sprouted oats. At the present price of costs at a couple of hours every morning and piled by using beef scrap in the dry
mash or by feeding plenty of sour in the winter consists of equal parts clover, cabbages or sprouted oats, a couple of hours every morning and At the present price of oats, the mangels are the most economical as full crops. Oats are a good egg feed,

ESSENTIALS FOR WINTER Eggs | ed in the winter. Galvanized pails ESSENTIALS FOR WINTER Eggs
The problem of obtaining winter eggs centres in the making of conditions as near like spring as possible in the winter laying-house. The floor of the poultry house is the winter range of the hen and there she must find conditions conducive to health, and food for egg production, or she cannot lay.

Estimate the winter in the winter will others use water as it comes from the well. Both seem cannot lay.

First, early-hatched pullets are necessary for the best results. They are the best machine for turning out and changed often enough so that winter eggs. Then the ration must contain animal food. This can be sup-

a source of green feed. If cabbages and mangels are used the cabbages as wheat. They will eat more oats can be fed first as the mangels keep if they are boiled or soaked over night and placed in the poultry house in

in producing these spring conditions which are needed. The charmed the winter is only limited by the dath the birds are earling heavily to eat. If they can not her feed up are unable to pay at all. The grit is needed by the heat to grid what they do not. The grit is needed by the heat to grid what suffer during the winter for a lack of grit.

A clean dry liter is important. The grit is needed by the heat to grid what they do not. The grit is needed by the heat to grid what they do not. The grit is needed by the heat to grid what they do not. The grit is needed by the heat to grid what they do not. The grit is needed by the heat to grid what they do not. The grit is needed by the heat to grid what they do not. It is in response the elements of egg production. This grid with the stratching for grain helps to heat the pulles and they will be at three days and tones up their physical being in a supplemented each day with the grain to make the birds exercise, and the same manner that they are stimulated the stratch in the stratching for grain helps to containing when the birds are sure of enough to heat they will not overeat of a balanced ration and this date that the world in the pullets and the pullets and the pullets of course a containing when the birds are stratching for grain helps to heat they will not overeat of a balanced ration and this date when the pullets and the part of minimum the will be dependent to himpstance of rules and fair plays help in the birds are strains and the same manner that they are strainty and the part of a balanced ration and this date when the pullets and the part of the pullets of minimum the strainty in the birds are strain in possible, separate the pullets of minimum the strainty in the birds are strain in possible, separate the pullets of this age of the plays and the part of the first wind the strainty in the birds are strainty of the containing and the part of the plays and

mer. Straw makes a good litter and it should be dry and deep. A sunny lit is essential for the best results as to keep dry. A dark and damp poult to keep dry. A dark and darp poult to keep dry. A dark and dark and

When Our "Big Injun" Plays.

Supervised Play Must Still Be Genuine Play and Make the Player Glad.

BY ORA A. CLEMENT.

deminant traits resembles an Indian dand it will be good exercise for our brave to whom all the world is a hunting ground and who recognizes no master save his own will. Children of this age are full of vitality and energy—if they are not it should on the playground have made the recember of the properties. their play at this age is supervised great a change or of suggesting plays and directed, they receive a great which did not appeal to the children. deal of invaluable training and edu-And why should children accept the

Professor Joseph Lee, discussing Let no one imagine that super-the stages of childhood, characterizes vised play means calling a group of the age between six and thirteen as youngsters from their mud pies by the Big-Injun-age, because the child saying: "Come, children, let us do a at that period in many of his pre-folk dance. That is a nice clean play regarded as a danger signal. If mistake of trying to inaugurate too



Potato Profits

dicious use of fertilizer doubled the yield.



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Red Rose," the single comb Rhode Island Red owned by C. B. McMullen, Truro, N.S., which won the championship of the Dominion at the Annual Exhibition of the Colchester Pet Stock Association. This hen

parachites made by tying the four look. Such work should be super-corners of a piece of muslin to a weight, and many variations of these. Throwing games need supervision in group-playing on account of the danger from missiles. There are many games based upon pulling and they are largely variations of tug-of-war.

If they are accustomed to it, children like dramatization, but the child dren like dramatization, but the child

Circle games, as drop-the-handker-chief, blind-man's-buff, Ruth-and-Jacob, are especially good for group playing if the children will play them. There comes a time during the Bigand the shady side of the shool house and the shady side of the school house and the school house and

The senses develop with the muscles and there are many games for both indoors and out which give really valuable 'training to the faculties Variations of I-spy cultivate alertness of the eye. Loto, games in which letters are dealt out and each player watches for a group which spell a word, blackboard games like tit-tat-toe, train both the eye and the mind and furnish endless amusement. Games like beast-bird-or-fish in which a player must think of an answer while a finger is pointing in his face, develop concentration of mind. There are many more games of this character which children like and which are especially valuable to the smaller ones whose hands, tongues and eyes are not yet trained to respond quickly to their will.

Another outstanding characteristic of the Big Injun is his desire—shall I say his determination?—to excel. "My dog can liek yours," "My dress is prettier than your," "I can run faster than you," are commonplace challenges. From this trait comes their willingness to enter contests of whatever sort. Very simple contests such as an egg hunt or a strife to see who can get the most "hundreds" in spelling, are entered with spirit, and still more enthusiasm is shown over more organized on under estable.

Typewriter Barcains

Girl' Guide organizations and show to meet to meet the mem chall to meet to meet the to meet to meet the to meet the new need. If the group is too small first this could be formed, even if it has only three members. It is highly important that at his age the childre in this and protent that this age the childre in the say in the conduct house of his own, be gratified, for in its conduct he will learn as he will nowhere else, the lessons of loyalty and self-alnegative first of his own, be gratified, for in its conduct he will be lessons of loyalty and self-alnegative first of his own, be gratified, for in its conduct he will be formed, for in its conduct he will now here else the lessons of loyalty and self-alnegative first of his own, be gratified, for in its conduct he will b

over more organized contests. Every competition carried on under established rules must be supervised if it is to be successful, for children of this age will not observe rules. This is not an indication of lax morals or of faulty training but only one of 68 Victoria St.

dren like dramatization, but the child of ten or more who has never played that way is often diffident and shy about that form of make-believe

a cold-crank.

means an added burden. A very slight amount of thought and preparation enables one to quite effectively. No one need think of leading chiladirect children's play.

the shady side of the school nouse and a boy to dress in his sister's dress as to join in such games after he feels he has outgrown them. The senses develop with the muscles and there are many games for both indoors and out which give really valuable 'training to the faculties.

This indicates the passage into another stage of play. If possible, Boy Scott and Girl Guide organizations, Boys' and Girls' Clubs or some similar organization should be formed to meet the passage into another stage of play. If possible, Boy Scott and Girls' Clubs or some similar organizations should be formed to meet the passage into another stage of play. If possible, Boy Scott and Girls' Clubs or some similar organizations should be formed to meet the passage into another stage of play. If possible, Boy Scott and Girls' Clubs or some similar organization should be formed to meet the passage into another stage of play. If possible, Boy Scott and Girls' Clubs or some similar organizations should be formed to meet the passage into another stage of play. If possible, Boy Scott and Girls' Clubs or some similar organizations should be formed to meet the passage into another stage of play. If possible, Boy Scott and Girls' Clubs or some similar organizations should be formed to meet the passage into another stage of play. If possible, Boy Scott and Girls' Clubs or some similar organizations, and there are many games for both indoors and out which give really valuable 'training to the faculties.

Without the rich heart, wealth is an ugly figure.

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Sheep Notes ?

is a shed in a dry location partly of to the south, so that it afferds ample air and the flock should have free range of the yard continually—an old motto is "Never close a door upon a sheep."

They should be fed winter ration

after the ground freezes, as grass then has but little mourishing power. Plenty of green feed either in the form of rape, clean turnit tops or roots, is relished at this season and only such hay as will be eaten up clean should be given. The hay is best fed in racks. Some shepherds best fed in racks. Some shepherds prefer a rack into which the sheep can get its head, others, including the writer, prefer one with slats placed just far enough apart to enable the sheep to enter its nose and pull the hay out. A little hay is pulled out under foot in this way, but less is wasted than where the sheep get a chance to get their heads in and muss the whole lot. When sheep enter their heads into a rack they invariably tear the wool along their neck and spoil their appearance, as well as the neck wool.

Whether or not some grain should be fed during November, December and January is a question that must be decided by the sheep owner himself. If the hay is young-cut, well cured and with plenty of clover and and with plenty of clover and and with plenty of clover and ables the attendant to give the ewe may be had to sowning of lambs by the ewe and enables the attendant to give the ewe.

The C. Nestle Co. for Canada.

The Lambs and there is a great deal more Christmas spirit in a gift that you trail round town to find, all the while hunting for something and there is some and there is some and there is some and there is some and there is should be placed where access may be had to the at all times.

As the lambing season approaches, all long wool around the udders should be clipped away and a number of individual pens, 4 feet by 6 feet in size provided, where each ewe may be had to different? S

cured and with plenty of clover and the sheep are in good condition, grain is unnecessary. Succulent feed as able the attendant to give the ewe and enterprovided. After tops are done turnips should be feed daily at the rate of from 2 to 4 pounds per head per day.

As the winter passes a grain mix-

sweet, gentle woman, one always to do good, and one who never

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Prevention or Cure?-By Margaret A. Bartlett.

try house means that the litter will be damp and the birds will not enjoy working for grain in such a mixture.

Lice and mites can thrive even in the winter and must be controlled if winter eggs are expected. Colds winter eggs are expected. Colds will be prevented by keeping the birds vigorous and isolating any individuals that show signs of cold by the weeping should be watch.

The water supply should supply struction and pleasure from a dozen in such a war supply should seriously. She believes that one can be wrath the spring children who have seriously. She believes had one seriously. She believes that one can be seriously. She believes that one can be wrath tite going to turn.

The only d Mrs. Brown is one of the compara- | The only difficulty she now encountwhat and wan stooping shoulders and hollow chest. Such children should be given plays that tend to correct these faults.

Games That Develop the Muscle.

There is an almost unlimited number of plays which meet the needs will amuse the meets allow the growing body. Running games, such as races, dare-base, pnisoner's base, pull-away and last-couple-out have been played for ages and continue popular. They all develop limited number and shooping hashing and plenty of old boxes. In rural schools where both boys and equiphate, the best of the growing body. Running games, such as races, dare-base, pnisoner's base, pull-away and last-couple-out have been played for ages and continue popular. They all develop limit the same of the growing is the prominent features are all the ball features.

Games in which throwing is the prominent features are all the ball features and of a goose feather), tossing up parachutes made by tying the fer only a few of the pretty things a girl can do without taxing near the province of a piece of muslin to a weight, and many variations of these and own works and work should be super-towned and many variations of these and of a goose feather), tossing up parachutes made by tying the few should be super-towned and many variations of these and away the and the prominent features are all the ball features and of a goose feather), tossing up parachutes made by tying the few should be super-towned and many variations of these should be a provinced and provinced

"very warm"-and go home and bake rooms heated to eighty degrees or more, rooms which have not been thoroughly aired since the first freeze of the season. These neighbors and their children have colds from the begin-ning of the "closed season" till its end, and they marvel at the fortune which come as a result of a common compensation to individuals for los which keeps the Brown family cold-less for month after month. Some there are who call Mrs. Brow

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e who harvested income g \$1% of aver. yields, \$606.00 1% 533.00 10% 556.00 120% 1231.00 Push your crop yields above the average and get the big Labor Income. For increased yields in 1921, apply Fertilizers. Write

THE SOIL AND CROP

GIFTS AND-GIFTS

"What," asked Alicia, "are you go ing to give Aunt Hester?"
"Oh, I never have to bother about her," Ethel answered. "I always give all my aunts handkerchiefs. I get two dozen and divide them up among the aunts. It's such a relief to have so much off my mind on Christmas."

"It must be a great surprise,"
Alicia commented dryly.
Ethel frowned; then her face

dimpled.
"Don't you think," she suggested,
"that there's a great deal more
Christmas spirit in a gift that you

So she sent Aunt Hester handker. voking memory by sending half dozen—and half a dozen handk chiefs of real linen were gift this year, she said to herself. Perhaps it was that same provoking memory which made her find time to run in to see Aunt Hester on Christmas Day.

Aunt Hester greeted her warmly.

Ethel realized with a stab of dismay that she looked startlingly frail; but her eyes were as keen as ever. tables beside her was covered with gifts. Among them were at least two dozen handkerchiefs.

"Your handkerchiefs are lovely," Aunt Hester said. "You always do choose beautiful ones, child."
"But do you always have so many?"

one of your children who is suffering importance. Measures known as from a cold. You wouldn't speak ill of a woman who drove a deadly rattlesnake from her door-step; why, then, be angry at her if she turns of mutual insurance under which away a cold-carrier? There are many hundred more deaths each year tax each other for the granting of west signines something of vivide importance. Measures known as a result of a common commencation of the prairie of mutual insurance under which crural municipalities can operate to many hundred more deaths each year. cold than there are deaths resulting incurred by hail, which are often very from rattlesnake bites! and the extent to which it operates in Saskatchewan and Alberta are set forth in the November number of The Agricultural Gazette of Canada. Each claimant is entitled to receive more than five cents per acre for every one per cent. of damage from hail he has sustained. To some this may not appear a very liberal provision, but when it is understood that the number of claims filed in 1919 in Saskatchewan were 7,838 and that the total indemnity paid amounted to \$1,911,776 a different view will obtain. For one storm alone that oc-cured in July of the year referred to claims amounting to \$1,100,000 were satisfied. In Alberta the total losses for the same year were \$506,000 against a valuation of \$12,000,000 insured. Besides the system under Government supervision there are 86 companies in Saskatchewan that accept hail insurance and that paid cut \$1,750,000 in 1919 for losses caused by hail.

Silver fox skins were recently sold in London for \$1,250 a piece

Oats yield the largest crop among the field crops grown in Canada. Yield, 1919, 394,387,000 bushels; wheat yield, 193,260,400 bushels.

The first community effort of Ne-braska farmers to make use of electricity on their farms has just begun in Howard County. Both the house-wife and farmer will seek to apply electrical treatment to more and more of their drudgery problems. Thresh-ing machines, windmills, and corn shellers are to be so operated, also washing machines and churns. The farmers built the transmission line themselves, at a cost of \$7,000, and will pay six cents per kilowatt for will pay six cents per kilowatt for the power. They are chiefly Danes, heavy landowners and wealthy.