Conducted by Professor Henry G. Bell.

The object of this department is to place at the ecrylce of our farm readers the advice of an acknowledged authority on all subjects pertaining to soils and crops.

Address all questions to Professor Henry G. Bell, in care of The Wilson Publishing Company, Limited, Toronto, and answers will appear in this column in the order in which they are received. As space is limited it is advisable where immediate reply is necessary that a stamped and addressed envelope be enclosed with the question, when the answer will be mailed direct.

this winter and spring. The soil is a good sandy loam. My two soils want to raise a bumper crop. Now would you advise to drill the fertilizer in with grain drill or corn planter? We intend to check it. Also how much fertilizer should we use to the acre? The land is in good shape.

Answer—In order to get a maximum yield of corn on your sandy loam soil, I would advise you to put on 400 pounds of fertilizer per acre. I would broadcast 300 pounds of this by drilling it in with a grain drill before the land is planted to corn. Sow the other 100 pounds per acre through the fertilizer attachment of the corn planter. I would advise an analysis of fertilizer running from 2 to 3% ammonia and 8 to 10% phosphoric acid; also 1% potash will help, if it is obtainable.

Question—C. O.:—I have a piece of rather light land that was in corn is rich in carbo-hydrates. Many farmers get excellent results by hogging down the corn and allowing the pigs to harvest the soy beans. This balances their ration, as indicated.

The beans may be planted at the

otal also 1% potash will help, help bigs to harvest the soy beans. This pigs to harvest the soy beans. This balances their ration, as indicated.

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Question—C. O.:—I have a piece of rather light land that was in corn last year, part of it had mahure applied. If the balance of the field is manured then disked and harrowed thoroughly, would it be all right to sow clover on, providing it is well limed? How much hydrated lime is needed per acre? Would it be advisable to sow buckwheat and clover? When ought the seeding to be done? Answer—If the land is well manured and limed, then disked and harrowed thoroughly, it will make a good seed-bed for clover. If adding hydrated lime, I would use from 1,000 to 1,500 pounds per acre. I do not believe that buckwheat would be a good nurse crop for the clover. The buckwheat tends to grow very thick. It is used to smother out such weeds as quack grass. I would rather preferoats, spring wheat or barley. Perhaps barley is the best nurse crop, since it ripens early, is shallow rooted and is removed more quickly from the since it ripens early, is shallow rooted and is removed more quickly from the ground, so that the clover has a betground, so that the clover has a bet- He advises sowing this early in ter chance to grow. The small grain and clover should be sown as soon as the ground can be prepared in the spring. In order to help both the small grain and the clover catch, since your seeding must necessarily be late, I would advise applying from 200 to pounds of fertilizer carrying 2 to 3% ammonia and 8 to 10% phosphoric acid. This will act like whole milk to the young calf. It will give the infant grain and clover plants easily green, I would advise you to mix peas

F. G.:-We have a fifteen beans in ensilage corn? Does this acreacre field of clover sod manured this winter and spring. The soil is a good sandy loam. My two sons as the corn? I thought perhaps if the want to raise a human crop. Now

Total88 fbs. He advises sowing this early in May. The oats and the Early Amber

@Pouttry &

The shade problem is one that must be solved in the near future. The days will soon be here when the midsan can do a lot of damage to exposed to it. Even in June stock exposed to it. Even in June there are days when a little shade is needed. This is probably more the case with chicks than it is with grown fowls; but, nevertheless, they all need it. Trees furnish the most cooling shade. Where trees are not available canopies should be erected, made by driving stakes in the ground and covering the ton with burlan. stock exposed to it.

ering the top with burlap.

The chicks need plenty of nourishing food, but care must be taken that they are not overfed. If overfed they will lose their appetites and becomes

tunted.

The hens out on range must be look-



When a man is in love with a girl the best time to start feeding the should tell her as a matter of form, foetus

heifer to produce a good milk cow when it is young.

The strength of the pig when far-rowed exerts possibly the greatest ef-fect on the ultimate economy of production.

Second only to this point in import

Second only to this point in importance is the influence of wisdom in the feeding and management of the sucking and the weaned pig.

More good litters are ruined—and more swine-feeders baffled and discouraged—by improper feeds and feeding and ill-advised methods at the said mentioned, then possibly discouraged by mentioned then possibly discouraged. period mentioned, then possibly dur-ing any other phase of the pig's ex-

Teach the litter to eat three weeks

practically a necessity, with middl-

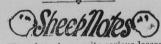
A few handfuls of dry grain scat tered in the bedding insures the pigs taking exercise. Avoid overfeeding, taking exercise. Avoid overfeeding, and make exercise necessary.

Gradually increase middlings until weaning. If skim-milk is available,

weaning. If skim-milk is available, and two litters per year are anticipat-ed, wean at six weeks of age; otherrise wean at eight weeks.

Rape makes excellent forage for

And rape, sown on land kept hogs. And rape, sown on land kept under clean cultivation until July, will assist in land cleaning.



There have been quite serious losses in lambs in England this spring owing to unfavorable weather and lack of skilled help at lambing time. When the sheep have become accus-

tomed to pasture, and the grass has gotten good heart, there need be little

nxiety about the flock.
Grain fed to the flock while on pasture increases the profits.

Provide a lamb creep so the lambs can be fed an extra ration of grain by themselves.

The quicker the lambs grow to mar-

ketable size the more profit and the better the meat.

better the meat.

Shear the sheep early. Protect them And behave mannerly at table;
And behave mannerly at table;
At least as far as he is able.

Robert Louis Stevenson. ains or cold winds.

The ticks will go to the lambs, which

should be dipped.

Dock the lambs while they are

young, as there will be less shock and less loss of blood. But not too short.
Smear the wound with tar. Keep a
close watch that the healing takes

That Feminine Intuition

though the chances are that she knew it before he did.

A SILO ON EVERY FARM

In 1911 Pays For Itself in Two Winters With Twenty-Cow Dairy—How to Get It-Where to Put It.

to the young calf. It will give the infant grain and clover plants easily digestible plantfood and will greatly assist both crops.

Question—W. M.:—What is your advise in regards to planting soy

20. The local language, the official, and the language of universal intercourse in the Roman world, are combined to proclaim his royalty.

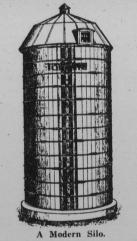
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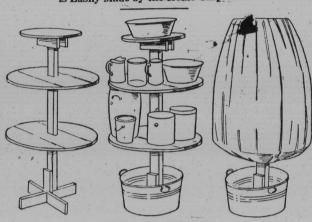
21. There is anything a farmer is justified in going into debt for it is a distinct of its self so quickly as the silo. The question, Will it pay? is no longer debatable. With a dairy of twenty cows it will pay for itself in two winters' feeding. The only questions nowally introduced and has been greatly improved. In selecting indicates the mingring of Jevy, Roman, and Greek in the great apostle of the wide world in the control of the proclaim his royalty.

21. There is anything a farmer is justified in going into debt for it is a dispatch for it is an doors must be air dispatched. There are five kinds of silos on the market, those made of wood, solid cement, cement blocks, hollow tile and its will pay for its self, will pay for its self so quickly as the silo. The question, Will it pay? is no longer debatable. With a dairy of twenty cows it will pay for its self, will pay for its self, will pay for its and to proclaim his royalty. One will the proclaim his royalty. One will be an anything a farmer is pustified in going into debt for it is a distribution. The questions of the market, those made of wood, solid cement, cement blocks, hollow tile and its will pay for its and the language of universal intercourse in the Roman world, are combined to proclaim his royalty. One wil



A HOME-MADE REFRIGERATOR

Simple Device Which Makes a Good Substitute for an Ice-box, and is Easily Made by the Home Carpenter.



An Iceless Refrigerator.

Country homes without ice-houses may have an iceless refrigerator as a

country nomes without ice-nouses may have an iceless refrigerator as a good substitute.

This convenience comprises a simple wooden frame with a covering of canton flannel made to fit so that little air is admitted into it.

Wicks made of the same material as the cover are tacked on top of each side of the cover and extend over into the pan of water sitting on top of the frame. This water is taken up by the wicks and carried down the sides of the cover- by capillary attraction, when evaporation takes place, drawing the heat from the inside and lowering the temperature. The more rapid the evaporation, the lower the temperature. The refrigerator should therefore be kept in a shady place where there is a free circulation of air. Keep the wicks in a supply of fresh water in the top pan. The whole refrigerator should stand in a larger pan which catches the drippings from the cover.

The frame may be made of pine, painted white. About 5½ yards of white canton flannel will be needed. Put the smooth side out, care being taken that the cover comes to the lower edge of the frame. The wicks are made half the length of the sides and sewed on the top edge at each side. They must extend three inches into the water. The three shelves are made of zinc. Cover the whole frame with wire screening to protect from files.



Whole Duty of Children

A child should always say what's true spoken to.

Making Others Happy. A dozen pairs of little shoes and slippers hung down almost to the floor from that infant class bench, and a dozen little maids kept them swinging back and forth all through the lesson hour. Ada Bryce was so busy gaz-ing at her own pretty, shiny boots that she did not notice a pair of very worn shoes at the other end of the

row.

"Why, what a shabby pair of shoes to wear to Sunday school!" she thought to herself when she caught sight of them; "and what a faded dress that little girl has. I am glad she is not sitting by me," and she smoothed her own dainty frills with a chubby hand.

The symptoms for disease of the side-bone are, in some cases, lameness, and a hard, unyielding enlargement surrounding the heel on one or both sides of the foot. If lameness be present, blistering tends to effect a cure; if not lame no treatment is advisable.

Use three or four horses in a team

a chubby hand.

The teacher was speaking again, and her words set Ada thinking.
"Now, girls, you have answered well to-day, and I want to know who will promise to remember the lesson during the week and try to make someone happy whenever she can?"

Use three or four horses in a team wherever possible.

The neck and shoulders of most horses are all the time changing. The collar that may be all right this year may need considerable readjusting another year.

It is difficult to find a better collar than year and exceed except the second of the collar than year. a chubby hand.

Happy whenever she can?"

Up went Ada's hand with the rest, than a good curled hair collar.

thought: and before she knew it almost she had smiled at the little stranger, whose big, wondering eyes smiled back into her own.

As the infant class scholars trooped for the closing exercises a little out for the closing exercises a little figure in a dainty dress slipped into the seat beside Janey Burns and a soft little voice whispered, "I guess I'll sit by you. You can hold my muff if you like. It's cosy to put your hands in."

As she and Lucy Miller trotted home from Sunday school together Ada whispered in Lucy's ear, "It's easy to make people happy; and isn't it funny? It makes you feel as if it funny? someone were making you happy,



Use three or four horses in a team





