heat crop will not ng public as flour at least and in the untry will be very ur. We have as ed States-shipped possible to the Alconsiderable share al supply to help until the new harto the market and n turned. The use refore, becomes an ty in this country should familiarize ethods successfully se substitute flours. ly the Canada Food ame effective rehakeries, and privo, to use 10% subthe 15th of July s increased to 20%, ast of Pert Archuz s in each houseat are substitutes where can they be they to be used. ned by the new law, s, corn flour, corn arch, hominy, corn r. rolled oats, oat ar, buckwheat flour, ca flour, rye flour Potatoes are also

flours and as soon ad calls for them tibuted throughout now procurable by me talk about the being high in but it is expected will remedy itself t into general cirthe trade. In the the price has adn Chicago on acditions. Canadian ing on American the price of corn all new contracts. that this market nue, however, as ty of corn in the last harvest, aldistribution arose icient transportanilar causes. With

rospect, it is ex-

ill be a still more

r the coming sea-

stitute for wheat

n of four pounds of

he other substitutes

ount of the higher

er in potatoes. A

ery to experiment ite flours a few eding in producing and opportunity study the effect of d the different mendling, fermenting the doughs. As flour substitutes entation, it will be the dough as long four hours for ferifficient in a room rature, divided as 5 minutes for the tes for the second es is allowed befinally taken out, to loaves. After . 45 minutes is en-, when it is ready

oat meas or other loisture retaining may be improved ingredients at a degrees Fahrenvo hours for coolwheat flour submoisture in the Il the wheat flour eased amount of f their higher abthus reducing the i shortening necesing are a few of mended to bakers. ul also in private ostitutes are to be our for bread:ad -2% pounds pound corn flour, n sugar. 2 tableleast, 1 tablespoon ter. This should s of bread.

read. 52-3 cups ups barley flour, 2 er, I cake of comdespoons sugar, 2 teaspoonful salt. ro loaves. -8 cups standard

rice, 1/2 cup milk warm water (for mpressed yeast, 4 teaspoons fat, 11/2 hen ready for the a stiff drop bates mentioned make

arden Tools.

d a home garden e expenditure in hoe, and a rake, cost of considerre all the bought be used. Everye improvised. A made with a piece o sharpened sticks e. A thin piece of can be made into a A good scratcher made by driving nails through the lath. A heavier e from a piece of

end sharpened,



Conducted by Professor Henry G. Bell The object of this department is to place at the service 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. When writing kindly mention this paper. 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



U. W .-- 1. What is the cause of crops. The second type of crop is young oats turning whitish in color at that which is cut when the plant has tips of the leaves? 2. When is sweet gained its greatest growth and the Clover ready to cut for seed? 3. Is crop is still green. This includes is possible to destroy the wild must clovers, grasses, and millets. The tard in fields of grain without injur- third type of crop is sugar beets, ing the grain?

of the leaves of the oats. 2. Sweet humus to the soil. Clover which is clover seed-pods cling firmly to the grown will also add some nitrogen, on should be thoroughly ripened before on its roots. When clover and grass the stalk part of the plant will be very potatoes, mangels, turnips or corn, the gallons to the acre, and at the time small grains following these crops will of application the heavier the pres- benefit materially from this reserve of leaves, hence the plant dies.

rotation of crops? 2. When a farm next season, to the grass and clover is over run with thistles and burdocks and completes the three years cycle what is the best plan to get rid of of the rotation which is first grass and

types of farm crops. For instance, and a longer cycle can thus be made. the grain crop is cut when it is ripe 2. The best method of getting rid of and the seed is harvested. The root- thistles and burdocks is by growing ing system of grain speaking general- cultivated crops such as potatoes, ly, is shallow. The fact that the pro- mangels, turnips on the areas where duct of the crop is grain means that these weeds are most found. Conthe largest amount of phosphoric acid tinuous cultivating will weaken and (plant ripener) is removed by grain destroy these weeds quickly.

mangels, turnips and potatoes. These Answer:-1. The probable cause of crops have deep rooting systems, and the young oats turning whitish in they with corn, require considerable color at the tips was a light touch of cultivation throughout the early part frost. After a heavy rain storm if of their growth. Now if you plant drainage is poor and if the rainy sea- your crops in the order of grass and son should be followed with cold clover crops first you will get a good weather, there is likely to be a paling sod to turn under in order to add stem when ripening, hence the head account of the forms of life or bacteria the seed crop is cut. By this time is followed with hoed crops such as woody, hance little nutriment can be ground is cleaned of weeds, by the culgotten from it by stock. 3. Wild tivation. The deep rooting nature of mustard can be destroyed in grain the hoed crops means that the plantfields by spraying with iron sulphate food of the lower depths of the soil is solution. This spraying will tem- used. The hoed crops are followed porarily injure the oats or other by grain crops. It is a frequent and grain crop, but it will kill the mus- very profitable practice to add considtard. The grain crop will recover erable plantfood in the form of marapidly from any injury. The solu- nure or fertilizers, in order to increase tion of iron sulphate to use is about the yields of root crops. Some of this 100 lbs. sack to a kerosene or vinegar plantfood will not have been used up by barrel of water. It takes about 5 the potatoes or other root crops, and the sure the more effective will be the plantfood. The fact that the soil has spraying. Spraying on dark damp been so thoroughly stirred by cultivadays gives surest and quickest re- tion of the root crops and by their turns. The spray falling on the broad harvesting, is also a great benefit in leaves of the mustard destroys the preparing the soil for the grain crop which follows it. The clover and R. F.-1. Will you kindly explain grain crop. This brings us back, the clover, second hoed crops, third, grain Answer:-1. Rotation of crops crops seeded to grass and clover. Any means simply the planting of crops one of these three year periods can be in definite order. There are various expanded by repeating the same crop

20. They straightway left the nets,

dence that they debated for a moment.

their nets and boats. Their attitude

is one of ready compliance at once.

and John . . . left the boat and

their father, and followed him-The

circumstances of the call of James and

John differ but little from that of Peter

21, 22. Two other brethren, James

"straightway."

No question about the disposition of

in the import of this. They were later to learn its significance as they accompanied him among the thronging multitudes and beheld his wonderful ministry of help. and followed him-There is no evi-

INTERNATIONAL LESSON JULY 28.

Lesson IV. Christian Obedience Matt. 4. 18-22; John 14. 22-24. Golden Text, John 1. 15. Matt. 4. 18-22.

Galilee-We have already, in the a net; the former are mending their studies in Mark, visited the Sea of nets, in company with their father. Galilee and spent some time with the The statement that they left their Master in the midst of his wonderful father tells us a whole story-that works by the shores of this noted lake. now the burden of all the work must They were fishers-This industry fall upon the father, bereft of his must have been pursued by many, for strong sons. Peter was married and the lake shore was lined with populous with his wife lived in Capernaum. In villages. The modern Arab cares lit- joining the little company of the tle for fishing, not having the pati- Twelve to wander over the land in ence and the industry necessary for loyal obedience to the call of the Mas-

19. Come ye after me-His selection the company of his mother-in-law. of these fishermen is the wonder of all. What must it have meant for the im-It would seem unwise for One who pulsive and affectionate Peter to turn proposed to inaugurate a program of away from his little home to follow world conquest to select the unin- the Master, whose wonderful sumfluential and the untutored as agents mons had captured his heart? We in this great work. But He "knew have no knowledge of Andrew's what was in man" and found in these domestic life save that he was a brothingenuous sons of the lake men of er of Peter, bound by ties of affection honest mind and loyal purpose. They to his home and to the glorious lake. Six little maids on a summer day were likewise men from among the Of all of them it is simply said, "They masses, in sympathy with the common straightway followed him!" man and capable of receiving training. hesitated not.

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prices; they will show you how

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who has sold his wool both

general store.

General Store

I will make you fishers of men-It is John 14, 22-24. hardly possible that they would take Verse 22. Judas now advances question, wondering why it is that Jesus makes this manifestation to his disciples only and not to everyone: Florence and Annie, blithe and gay Lord, what is come to pass that thou wilt manifest thyself unto us, and not unto the world? Farmers who ship their wool

23. If a man love me, he will keep my word-The root of Christian obedience is love. It is not the result of an authoritative command imposed And the ruffle is wrongupon us from without, but the upspringing of a spirit of loyalty within. My Father will love him, and we will come unto him, and make our abode with him-Love responds to love, reveals itself to love. Loving obedi- She needs to sleepence is therefore a positive source of O May, would you keep knowledge. This is true in human relations. We do not open our hearts Then Lucy is heard: to every passing stranger-"to the Only to those who are in "Did you see that bird complete sympathy with us and who love us do we unfold the inner pur- Its wings were red,-

poses, ambitions, and ideals of our life. Oh, I've broken my thread, 24. He that loveth me not keepeth And where is my thimble, Annie not my words-He might have said. "cannot keep my sayings," for to do so means more than the mere carrying "Aren't hooks and eyes

Give the growing chicks news to shade if possible. The orchard or

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Sewing In The Garden. Are out in the garden, sewing;

Much like the brook on its rippling Is their merry chatter flowing: Mollie and Bess and Lucy and May-How fast are the needles flying!

Though the work is very trying. "Just look at this dress!" Cries Mollie to Bess. "I know it will never fit her!

One sleeve is too long. Oh, that horrid hornet bit her!' And Florence cries.

"My Annabelle's eyes Stay open every minute! This bit of insertion in it?"

That just flew out of the cranny

And Annie replies: out of an order given us by a superior. The best in a dress for Daisy? I love to sew, And yet, you know, This collar drives me crazy!"

Never a brook on its rippling way Made a livelier chatter flowing;

Mollie and Bess and Lucy and May-Their needles are fast and steady; Florence and Annie, blithe and gay, Till the call that tea is ready.



5 Cents Extra for Her Butter.

When the storekeeper pulls back the parchment paper, lifts the brick to his nose, and sniffs noisily before doing up a pound of country butter. nothing valuable is advertised concerning the quality in general of farm butter supplies. Yet this is a common occurrence, varied occasionally with extension of the same privilege to the waiting customer, who may even demand a taste. Since the makers of poor butter hurt the market of those farms which produce first-class butter, proficient butter-makers must take steps to protect themselves.

The farms which consistently make good butter should use printed wrappers which set their butter off in class by itself. I saw one such enterprising instance not long ago. The wrapper read like this: "Made by Mrs. Oscar J. Warner, Salisbury, for James City Grocery Company, James City." The printing occupied an entire side of the brick. This farm woman quickly

had been seeing nothing but ordinary be trusted at large with the late hatch Hens and chicks require a large the whole Army-generals, officers, butter, that there was one producer and will range the fields with the young amount of water during warm weath- and soldiers, and I raise no distinccorn field makes an ideal place to rear Six little maids on a summer day | who thought her butter was better where they destroy great numbers of er. See that the drinking fountains tion," said Mr. Lloyd George, amid Are out in the garden, sewing; than the average and was proud of it. insects. A regular feed at night will are filled with fresh water every day. | cheers.

I come brown out to empa act regulations

## CANNING WITH A CONSCIENCE

All the Fruits and Vegetables Must be made to Count This Year. Community Canning Centres Help. Can, Dry, Store, Pickle and Make Jam.

No woman need lack war work 1,064 quarts jellied chicken, 500 quarts east. The sun was near setting, but

she has done her duty if she does not canning centre donated altogether hung the rainbow, God's promise to know that her pantry shelves are well \$4,500 worth of canned goods. filled this year.

In the olden days women vied with each other in the quantity and quality of fruit they "put up." It was a matter of housewifely pride. Again we are coming back to the same standards when thrift and domestic accomplishments account for much.

is a question in the mouths of hundreds of women.

The Food Board answers the ques- shipped to Canadian military hospi- There is another Sun and another tion. Sugar is not going to be tals. Allies' butter requirements.

The more jam made and the more worth while. Canadian housewives this year, the throw ourselves heart and soul ear- the world's rainbow to beautify the more butter there will be to export. Hier in the season into the cultivation dark cloud of sin and sorrow and But this is not to say that sugar is of war gardens?

while there are fruit and vegetables chicken soup, 850 quarts tomato soup, its face was clear and bright, and the 350 quarts peach jam, 250 quarts world was beautiful and clean and No woman needs sit down and think pickles. In round figures, Parkhill glistening with raindrops. In the sky

The Women's Institutes of Ontario ing forever. have taken the matter up this year, The great lamp in the sky, shining and by applying to them, full informa- down through millions of raindrops, tion can be secured regarding equip- made the spectrum, which we call a ment, the expense involved, and so rainbow because it comes with the forth. Concrete help will be given rain. How beautiful it was! But it wherever it is needed. The Red Cross, was only the sunlight broken into the working in close conjunction with the colors that compose it. Each had it Ontario Government, is willing to pro- own place and its own beauty. The Why can when sugar is scarce? It vide canning centres with glass jars rainbow would not have been the peror tins, and labels and shipping cases fect picture it was with any of the where the preserves are going to be colors gone.

scarce for canning, because canning is There is something about canning Righteousness, is the "light of the a conservation measure. Fats are on a communal scale that should ap- world," the true light or the white among the most vital needs of Eur- peal to every woman. The large light. He shines for the world ope. Butter is the most important sunny room with light and air, the through his people, for He said, "Ye of fats. Canada has infinite pos- companionship, the absence of confu- are the light of the world." The light sibilities where her butter and cheese sion and dirt attendant on home can- of Jesus Christ is broken up into the industries are concerned, but she is ning where the equipment is inade- many different colors as it passes not making the best use of them. She quate and-well, that feeling that through the lives of his people. None is only supplying 11/2 per cent. of the "everybody's doing it," help to lighten of us can be all that Christ is, the the labor and make it seem more pure white light, but we can each have

Rainbow. Christ, called the Sun of our place in his spectrum or his sunfruit and vegetables canned by Why was it that we were asked to shine. He wants his people to be

The Quiet Hour

Rainbow and Storm Cloud.

black clouds were retreating in the

man that the world is safe in his keep-

The rainstorm had passed, and the

death that has covered the world. He gives his light to the world through

As some of the rainbow colors are more brilliant than others, so some of Christ's people on earth make a greater showing than others; but each one of us is a part of Him if we shine with his light. He does not want us to try to be something that we are not, but to be that part of Himself that He has given us to be. He wants us to do our best and to be content that He has thought fit to shine through

How important it is these days, when darkness has covered the world and men are inclined to doubt and despair, that God's children, for whom the Sun of Righteousness ever shines, should let their light also so shine that the world may see God's rainbow outlined bravely and hopefully against the angry cloud of war.

> ---PARSONS AT SCHOOL

Even Clergymen Have Many Things to Learn When They Start "Soldiering."

I am one of a score of "padres" in training at a certain military centre. says a British chaplain.

We grow "fit" by means of four hours "physical jerks" and three hours' riding-school a week. The latter is no joke to him who has never sat a horse before, but perhaps our sergeant - roughrider - instructor de-

serves sympathy more than we. An artist in the use of blistering and sulphurous "language," and wont to give his genius in this direction full play, he has to restrain himself in our reverend presences. There are times when he "swells visibly" in the effort to hold himself in, and I fear lest one day he explode!

This reminds me that, among other military subjects, we are instructed in the various kinds of bombs and grenades and the safety precautions to be taken with them.

Then we have lectures on military law, and a demonstration of a courtmartial. The "padre" may well be called upon to act as "accused's friend" at a court-martial, and will do more harm than good unless he has at least a nodding acquaintance with the Army

Act and courts-martial procedure. We are instructed in camp hygiene, we learn all about anti-gas measures, and are put through the gas-chamber. A good knowledge of ambulance, firstaid, and bandaging naturally forms part of our technical equipment, and we also practice stretcher-drill.

The chaplain will have to go into the trenches, where he may be dangerously in the way unless acquainted with trench routine, and so we are taught that. Ability to cook, or help to cook, an appetising meal, will not detract from the "padre's" popularity, and we have demonstrations on fieldcooking.

Then, of course, we must learn the "drill" for military funerals, and are lectured on our work in mlitary hos-

There is, of course, a big difference between preaching in a church and preaching in a barn, a canteen, or in the open air, and we are taught voiceproduction and the conduct of openair parades. dehydrating or drying process. War

Finally, the authorities, not without a touch of humour, decree that each member of the class shall deliver a them for the time being as soldiers. resuscitation of those who collapse under the strain of hearing the other

In order to keep vermin in check in. The acreage in potatoes



1-Home Drying and Canning of Vegetables. Sterilizing fruit and taking trays of dried vegetables out of the oven. 2-Typical display of canned fruit and vegetables.

to be used carte blanche. Restrictions! Why was it that we were asked t have been placed on the confectionery slow down on our sugar consumpbusiness in order that there may be tion? more sugar for preserves. Regulations Chiefly that during the winter have been passed limiting the use of months which are ahead of us we may sugar for exactly the same reason. have an abundance of home-made sub-

But care in the use of sugar is still stitutes for the things that are needed necessary. While making all the overseas. Plenty of jam used in jam they can, Canadian housewives Canada means more butter for the should use the minimum of sugar. An Allies. Plenty of dried and canned old-fashioned idea prevails that to fruit and vegetables means more make good jam a pound of sugar is meat released for export. necessary to a pound of fruit. It It was in the year 1895 that canisn't! Usually three-quarters of a ning became a commercial industry.

pound of sugar is sufficient; with Away back in 1860 the mystery that some fruits one-half pound is enough. had surrounded the art disappeared, The early fruits are coming on the and by 1890 it had a turnover in the market now, and it is high time for United States of over \$45,000,000. In the piquant odor of canning operations the year 1916 the turnover has in to be floating on the breeze from hun- creased to thirten times that sum, and dreds of homes. Team-work pays in the canning industry is now establishthis as in most other kinds of work. ed as one of the most important in the To get the best results women should life of the nation. The same is true pool their equipment, their ideas, their of Canada. energies. In other worlds-have com- Aside from canning and jam-makmunity canning centres! This is no ing, there are other processes by novelty. It was tried out in different which our fruit and vegetables may parts of Canada last year, and it be saved, and chief among these is the

For instance, one little Ontario town conditions have brought the old art of put its name on the map through the drying into prominence and modern wonderful work done by its canning equipment has stimulated it and made sermon to the remainder, treating centre. In addition to 700 jars of it a profitable and safe method of savcanned fruit, vegetables and pickles ing food. The storing and pickling Our first-aid instruction includes the donated to the London Convalescent of vegetables are further measures of Home, it sent overseas the following: conservation.

bring them home.

the poultry-house nests, perches and United States shows a reduction as walls should be frequently cleaned compared with last year. Cottage cheese made without sea- and thoroughly disinfected. Hens "What about the general?" Mr. soning is one of the safest and best will not lay if they are tormented at Lloyd George was asked in the House which warranted the store paying her foods for poults. It furnishes protein night by mites, and during the day by of Commons when the Premier was in abundance and they thrive on it lice. Cleanliness in the pen is es- paying his tribute to the superb valor That wrapper told consumers who amazingly. The turkey mother may sential to success in poultry raising. of our troops. "I am referring to

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