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the theordiscovered that time ive power. ndamental e problem secretary who was ependence upon the nes move tal laws d adequate allable by ot merely tcome. As aeroplane 3 and sucin 1914. e Wright wn aeroance with laid down Brailsford n Magazine

third letter

do with

Conducted by Professor Henry G. Bell The object of this department is to place at the senelce of our farm readers the advice of an acknowledges 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

of fertilizing an orchard?

a vigorous wood growth, but not an and then fill up the spaces with a rich terials if free from weed seeds and of A.P. excessive growth. Latest investiga- mixture of cement. Unless the trees tions show that on most healthy trees are moderately healthy they will rarethe leaves retain a vigorous green ly pay for this work and better results color until late in the fall and the can be obtained from grafting trees fruit makes normal maximum growth, below the decayed portion and cutting To obtain the results indicated it is off the dead and dying wood as soon as well to resort to cover cropping so the grafts have made sufficient start. that green manure may be turned R. B .: - I have three acres I wish under as soon as the crop is harvested, to put in potatoes next spring. and thereby add considerable organic had oats this year. What is the best

time to plant raspberry canes?

raspberry canes. The success of the there are few that excel Green Mouncrop will be greatly assisted if the tain or the Carman No. 2. ground has been thoroughly fertilized Reader:-What kind of soil is best for the cultivated crop. If not, in adapted for wheat? What is the the spring you will do well to drill best way to prepare the land? in at least 200 or 400 pounds of a Answer:-Wheat thrives on a med-

has been badly neglected. Some be lumpy. At the time of drilling 20. How is it that thou hast found large limbs have been sawed off, and the wheat, apply 200 to 300 pounds it so quickly, my son?-Isaac had nothing put over the place. This of fertilizer analyzing about 2% doubts concerning his identity to start fall some squirrels started to gnaw ammonia and 10% phosphoric acid. holes in those places and have eaten The best application of fertilizer is been killed and prepared, on the face into the heart of the trees. Will you obtained through the fertilizer drop- of it an improbable thing. Because please advise me how to fix those ping attachment of the grain drill. Jehovah thy God sent me good speed places? Also, some of the trees seem Such a drill seeds the wheat at the -Jacob met the objection with the to have a rotten heart.

POULTRY.

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Charcoal helps to keep the flock in is prepared by a grinding process for hoped to find out the truth by the healthful condtion at all seasons of further digestion. If grit is absent sense of touch. Rebekah had put the the year. During the summer and fall, the gizzard cannot function properly. shins of kids upon the hands and neck much of the charcoal can be supplied Many farm flocks do not receive a suf- of Jacob. It is difficult to see how to the birds by burning stumps, the ficient supply of grit. They cannot this strategem could succeed unless prunings from an orchard or scrap use their food to the best advantage Isaac's sense of touch was also dull. of various kinds, but when the birds and the health of the flock and the egg 25. I will eat my son's venison—
are in the laying houses they should production will drop. Hens crave Skillfully prepared with spices and are in the laying houses they should production will drop. Hens crave have a supply of clean dry charcoal grit and it should be constantly supalways available. The charcoal absorbs plied them. I remember seeing a acids and gases and helps to keep the flock which had been in winter quar- raiment-The garments were the ofbird in condition when heavy feeding ters for several months without grit ficial robes of the first born, probably might bring on indigestion. Some in hoppers. They had cleaned up kept in a special place with aromatic poultrymen place the stove ashes in gritty substances from the floor and herbs to sweeten and preserve them. the poultry hoppers after they are were becoming decidedly worried for Isaac was familiar with the smell of cool and free from live coals and from lack of "teeth." We found an old the garments and was finally convincbroken vinegar jug in the scrap pile 28. God give thee of the dew of and pounded it up. In less than two heaven, etc .- It is said that the fall minutes the flock had eaten the jug of dew is copious and of great value and they picked it up more eagerly in Palestine, especially in the summer than they would have eaten the finest months when the rainfall is scarce. quality of corn or wheat. The hen's Temporal blessings occupy a large

> appears to be somewhat lacking. the blessing refers to the gifts of nature. In this Esau also shared (verse Calves dropped in the fall are apt | 39), but the possession of the land was to do much better when turned on in a peculiar sense the heritage of grass in the spring than those that Jacob. Such was the promise made

MULCHING STRAWBERRY PLANTS

Mulching strawberry plants in the such a nature as not to pack firmly. fall is necessary in this climate. The Wheat straw probably is the best, but prices at which strawberries have been ficient. In some sections marsh hay selling for the past few years have has been used and it is very satisfacshown the grower that he can well tory as a winter mulch. Three or four afford to do everything possible to his tons of straw per acre should be used plants to increase their bearing. The and it should be spread over the mulching in the fall is one of these strawberries to a depth of about two points to increase the bearing power inches when packed. keeps the berries from coming in con- so a cart or wagon is easily held up. tact with the ground and thus decay- Some growers put the mulch on being. The four main objects for mulch- fore the ground is well frozen, but it

INTERNATIONAL LESSON

NOVEMBER 10.

Lesson VI. Jacob's Deception-

Gensis 27. 18-29. Golden

Text, Eph. 4. 25.

favor of God. So the first part of

Verse 18. Who art thou, my son?

1918-19.

white oats (about 4 lb.), barley (about

J. H. Grisdale.

Director, Dominion Experimental

Mothers and daughters of all ages are cordially invited to write to this department. Initials only will be published with each question and its answer trench. Very often the soldier is as a means of identification, but full name and address must be given in each just a mere acquaintance. But with of the plants, because it protects them This mulch should be applied in the letter. Write on one side of paper only. Answers will be mailed direct if memories of the long days when a during the cold winter months and fall as soon as the ground is frozen stamped and addressed envelope is enclosed. Address all correspondence for this department to Mrs. Halen Law. 233 Weedbine Ave., Toronto. ing the strawberry plants are: (1) will be more successful to put the Bride's Mother:-A plain linen also disguise their height, to deceive This letter to the acquaintance far prevents winter injury to the plants mulch on after the ground is well froz tablecloth, well laundered, would do as the blind man, by bending their knees away has set more than one to chew-A. M. P.:—What is the best method. Answer:—I assume from what you tains a low soil temperature and thus time growth of the plant starts, all broad shallow non in the spring about the t Answer:—I assume from what you tains a low soil temperature and thus time growth of the plant starts, and say of your trees that the hearts of retards growth during the cold weath- the mulch should be raked off between the broad, shallow pan in the centre, and thirty or more players, two blind men newsy, yes, and tell of things that are Answer:—In fertilizing an orchard the fruit trees are considerably decay er; (3) keeps fruit clean by prevent- the rows except a very little which is fill it with dahlias or chrysanthemums. should be placed in the centre. There going on at hime, but the picture of

MESHELEN L'AW

600

there are two things to keep in mind. ed. If this is incorrect however, I ing its coming into contact with the left under the plants to keep the ber- The candle-shades and bows made of is much sport in this game for either gayety must not be painted too bright. One is that the organic matter of the would advise you to cut out the de- soil, and (4) increases the yields of ries off from the ground. By all crepe paper should match in color. children or adults or both together. A man likes to know that Canada is soil must be maintained, and the other cayed wood until you come to strong the strawberry plants. Reader:-1. The bride's mother carrying on and abhors a weepy, lowis that the plantfood balance should healthy wood, paint over the inner The mulch may be provided by the this fall and you will find the mulch with any of her spirited letter. But it isn't much fun be so established that the trees make side with ordinary paint or coal tar application of any one of several ma- is one of your best profit makers.— er like a bundle of fagots and laid on other children or relatives who are to hear that the boys gave the girls plates. Small dishes for olives, salt- not in the bridal party. This car- a picnic last Saturday and everybody ed nuts and bonbons are also placed riage leads the procession. The bride had a perfectly wonderful time. At words do not harmonize with the spirit upon the table. The refreshments and her father come last. 2. To salt least, it isn't so entertaining when of Christ. The form of the expres- should be served from the kitchen, almonds, cover them with boiling wa- you know you yourself spent that sion is according to the ancient He- placing a croquette, salad and a roll, ter and let stand, pushed back on the particular Saturday crossing No brew point of view, but the essential together with a fork, on each plate. stove for ten minutes. Then slip off Man's Land. It would be lots nicer Oats in comparison with any of the meaning is true. The purpose of God grain rations is the best single ration to the human race through the defer mature horses, colts, or mules. Scendants of Jacob could not be decourse is finished the plates should be lots nicer to have an account of that picnic with overnight. Melt a tablespoonful of a string tied to it, and the string There is no other grain so safe to feated. In them all the families of course is finished the plates should be butter for a cupful of shelled almonds, would be that you were missed—dreadfeed and from which such satisfactory the earth would be blessed. Israel collected and others containing ice- Mix them well in this with a teaspoon- fully. feed and from which such satisfactory the earth would be blessed. Island results are obtained. It is absolutely stood for righteousness, and all who cream, several small cakes and a ful of salt. Spread out in a pan and The letter to the front must be spoon should be sent in. Olives let bake in a slow oven for fifteen or cheerful, of course, but there are matter to the soil. Excellent results way to prepare the soil and the best have been obtained by applying about 10 lbs. of fertilizer to each tree, scat
11 lbs. of fertilizer to each tree, scat
12 lbs. of fertilizer to each tree, scat
13 lbs. of fertilizer to each tree, scat
14 lbs. of fertilizer to each tree, scat
15 lbs. of fertilizer to each tree, scat
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17 lbs. of fertilizer to each tree, scat
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19 lbs. of fertilizer to each tree, scat
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20 lbs. of fertilizer to each tree, scat
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26 lbs. of fertilizer to each tree, scat
27 lbs. of fertilizer to each tree, scat
28 lbs. of fertilizer to each tree, scat
29 lbs. of fertilizer to each tree, scat
20 lbs. of fertilizer to each tree soil and the best tree from should be passed during the first twenty minutes.

21 lbs. of fertilizer to each tree scat
21 lbs. of fertilizer to each tree scat
22 lbs. of fertilizer to each tree scat
23 lbs. of fertilizer to each tree scat
24 lbs. of fertilizer to each tree scat
25 lbs. of fertiliz ference of a circle which has about the location nor the general character of Here is a good oats ration for colts. Simply the doctrine that wrong and the way is to the same diameter as the spread of the word o same diameter as the spread of the your soil. If it is of a medium after weaning: Up to one year of age, may be that God's judgments are detree. Scatter the fertilizer toward loam type, I would advise you to have from two to three pounds a day; from layed sometimes, but sooner or later lines and a large "after dinner" school teachers, women's organizations and as usual, and as the outer edge of the circle would advise you to have from two to three pounds a day; from layed sometimes, but sooner or later lines and every person begins in grayly as usual, and as evil, and there is no escape from the and sugar being passed with it. The wedding cake may find a place on the sideboard; the bride cuts the first slice, the cake is then removed to a

> person cuts it in pieces suitable for through the imitation. Players may ing trip.

tions and every person having in- gayly as usual, is the rule here in fluence to frame public opinion or to Canada, the letter of cheer misses its lead a community movement, have point.

convenient place where any competent inces when the time is ripe. Hostess:-Animal blind man's buff may be grown in water from the ordinrequires from ten to thirty players, ary hyacinth bulb. Fill the glass moping about their part in the war One player is blindfolded and stands with water so that the bottom or root in the centre of a circle with a wand, part of the bulb is covered; then place stick or cane in his hand. The other it in a cool, dark room or closet, and it and they don't like others to. players dance around with him in a leave it there until the roots touch the circle until he taps three times on the bottom of the glass. Remove the them to avoid it. When you are defloor with his cane, when they must hyacinth and glass to the light, but voting all your days and many of stand still. The blind man thereupon place a paper cone over the top for your nights to the biggest things in points his cane at some player, who about two weeks in order to cause a must take the opposite end of the cane rapid upward growth of the spike. in his hand. The blind man then Change the water about once a week. commands him to make a noise like Better results are also secured if a world-where the things of war are some animal, such as a cat, dog, cow, few pieces of charcoal are placed in unimportant. sheep, lion, donkey, duck, parrot. From the water. Glasses for growing this the blind man tries to guess the hyacinths in water from bulbs are name of the player. If the guess be made especially for the purpose. 2. correct, they change places. If A khaki toilet set makes an excellent up." Make a collection of clippings wrong, the game is repeated with the Christmas gift for the Boy Scout. It same blind man. The players should is fitted up with military brush, towel. A handy pocket for storing paper try to disguise their natural tones as soap, toothbrush, etc. and has a strap bags, strings, etc., can be made by much as possible when imitating the that can be attached to a belt. This you like. Paste up a joke or two tacking a square of stout material on animals, and much sport may be had is very practical for the scout's camp-

LETTERS FOR OUR FIGHTERS

Writing letters to the soldier has grown to be a national pastime. There is scarcely one who does not withdraw from the family circle o Sunday afterneon or night to be all by herself when she weighs those boy may want for mail a girl or an lder woman writes to him as faithfully as though he were a man most

been enlisted to help. The ration plan Don't give the boys that impression. proposed by the old Loyalist province Let them know that we over here are has been approved by the Canada Food living the side issue existence, that Board and a similar scheme will be we over here are hanging breathlessly carried into effect in the other prov- on the things they are doing over there. That is one of the finest ways M. M. M .: -1. With care, hyacinths to be cheerful-to exult in the glorious thing our boys are doing. It is the that drives the boys to the blues and distraction. They don't more about Neither, as I have said, do they like letters from some one who seems to

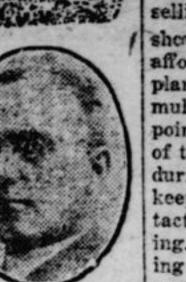
> One of the nicest ways I know of writing an occasional "different" letter to the soldier boy is to "paste it Paste them in neat order on a letter with little remarks of your own, if an entire letter to clipped out jokes. Every time you come across something particularly funny cut it out and save it for the boy at the front. Cut the sets of comics. Cut out a particularly good story from a magazine and paste it column by column on large letter paper. This is convenient for the soldier to handle, as he can slip the story in his pocket and have it to take out and re-read at odd moments, when no magazine is within reach. All of these things have been tried and called blessed by the men who are at the front, or, in fact, anywhere in the service. When you are at a loss for words try this scheme of borrowing some very jolly ones some one else wrote.

Winter Stores for Beeg.

The quality of the stores with which the bees enter winter is as important as the quantity of stores. In general. honeys from mixed sources and dark honeys, except buckwheat, are not desirable for wintering bees. Now is the time to make a special examination of all colonies to determine the quality and the quantity of stores present. Good honey for wintering bees should be liquid and quite bright and transparent. Candied honey betrays the probable presence of honey dew, which is wholly unsuitable as a winter food. The objectionable part of honey dew is the gum or dextrin which it contains. The bees cannot digest dextrin, and it collects in their intestines and brings about a condition known as dysentery. Granulated sugar is free from gums and is perfectly digested.

From the time that honey gathering ceases in the autmun till it begins again in the spring an average colony will consume forty-five pounds of stores. The bees ought to enter winter with this quantity in easy reach If the keeper prefers, he may supply only half of this amount in the fall if he is going to winter in the cellar, and two-thirds this amount if he is going to winter outdoors. Then the balance of the forty-five pounds should be given in the spring after the bees

Alsike, red clover and alsike are the rough feeds best adapted to form the basis of the ration for dairy cows and sweet clover is not to be despised in this regard. Other roughage feeds vary greatly in nutritive value, wheat and rye straw being about at the bottom of the list, with value increasing in the case of oat straw and cord stover, in that order, and ensilage being outstanding as a cheap feed that can be used in almost unlimited quantities for all classes of cattle,



the outer edge of the circle rather the patch fall-plowed fairly deeply. one to two years, four to five pounds cruelty, barbarism, injustice, and mint on the plate with the ice-cream. than in near the foot of the tree, since At the time of fall plowing, work in the tiny vigorous feeding roots are tothe tiny vigorous feeding roots are to- all the leaves and strawy manure you to eight pounds daily. ward the outer expanse of the root can get hold of. Leave the land in | The best way to feed oats is in the curse except to cease to do evil. system. Fertilizers carrying 3 to 4% the rough. In the spring work it whole grain. The expense of crushammonia, 10 to 12% available-phos- down smooth and mellow by disking ing is not justified unless colts suffer Distribution of Seed Grain From the phoric acid, as well as 1 to 2% potash and harrowing. When you strike out in teething, in which case it is advis- Dominion Experimental Farms, if obtainable, give excellent results. the drills for the potatoes apply ferti- able to feed steamed crushed oats, As to the time of application of ferti- lizer down the drills at the rate of which are very appetizing. It is a By instructions of the Hon. Minister lizers, customs differ, but good results about 600 pounds to the acre, using a good plan to feed plenty of roughness of Agriculture, a free distribution of Boston are obtained from applying the ferti- mixture analyzing about 3% ammonia, to growing colts. | superior sorts of grain will be made Mzer at the time of first cultivation 8% phosphoric acid and 2 or 3% pot- The feeding of concentrated feeds during the coming winter and spring ash. Follow the application by pull- to excess is discouraged, as it is im- to Canadian farmers. R. M .: Can you tell me whether I ing in some soil on top of the ferti- portant that the digestive tract be de- The samples for distribution will can start new grape vines by bury lizer then drop the potato pieces on veloped by distending it during the consist of spring wheat (about 5 lb.),

ing the ends of the runners or not? the soil and cover as usual. Be sure growing period. Answer:-New grape vines are not to treat the potatoes to prevent scab, Ungainly, large-barreled colts may 5 lb.), and field peas (about 5 lb.). started by burying the ends of the before cutting them. You can do this annoy the feeder, but this condition These will be sent out, free, by mail, runners in the soil. The common by putting them in a mixture of always disappears with maturity. Pro- from the Central Experimental farm, practice is to take cuttings from formalin and water, one pint of form- per feedining of colts should always Ottawa by the Dominion Cerealist, grapes at the time of pruning. In alin to 20 gallons of water. Leave be accompanied with plenty of who will furnish the necessary apthe spring place these in the soil in a them immersed for about 20 minutes. exercise out of doors. In no way can plication forms. row, when they will take root and They will quickly dry off when you a colt be ruined so easily and surely Only one sample can be sent to each start new vine growth. One of the take them out and will soon be ready as by a liberal feeding with lack of applicant. As the supply of seed is best treatises available on Grape Cul- for cutting and planting. As soon as exercise. Close confinement and the limited, farmers are advised to apply ture in Ontario is O.A.C. Bulletin No. the crop is up about 4 inches, and at rearing of good colts do not go togeth- very early. 237 which you would do well to ob- periods of about a week or ten days er. thereafter, spray them with Bordeaux P. J .: Is spring or autumn the best mixture which consists of 5 lbs. copper sulphate, 5 lbs. of lime, 40 gallons Answer: - Raspberry canes may be water. Dissolve the lime and copper planted in fall or spring. Speaking sulphate separate and dilute with wa-

generally the spring planting gives ter, using it immediately. This better results. The soil that is used spraying controls potato blight. Of for raspberry planting should be well course use enough Paris Green to keep prepared and if possible should have potato beetles in check. One of the been occupied by a cultivated crop best varieties of early potatoes to the year previous to the planting of grow is Irish Cobbler. For late variety,

fertilizer analyzing 2 to 3% ammonia jum clay loam soil. It is a medium -Isaac seems to have been totally and 8 to 10% phosphoric acid, at the deep rooted plant, requiring fairly blind, the sense of hearing also protime you are preparing the seedbed substantial plantfood in order to de- bably dull; touch and taste still acute. for the canes. Such plantfood will velop a good growth of strong straw 19. I am Esau, thy first-born-The be readily available for the young and a satisfactory filling of the heads. roots when they start growth, and For spring wheat, if possible have the Duplicity seems to be a besetting sin should greatly assist in obtaining sat- ground fall plowed at a medium of Orientals. Some allowance must isfactory wood growth and strength- depth. In spring, work the seedbed be made for the low state of primitive ening the crop for its first winter. down by alternate disking and har- morality, but the record nowhere E. B .: I have an old orchard that rowing also rolling if the soil tends to countenances the lie. same time that it applies the fertilizer. pious sounding observation that the

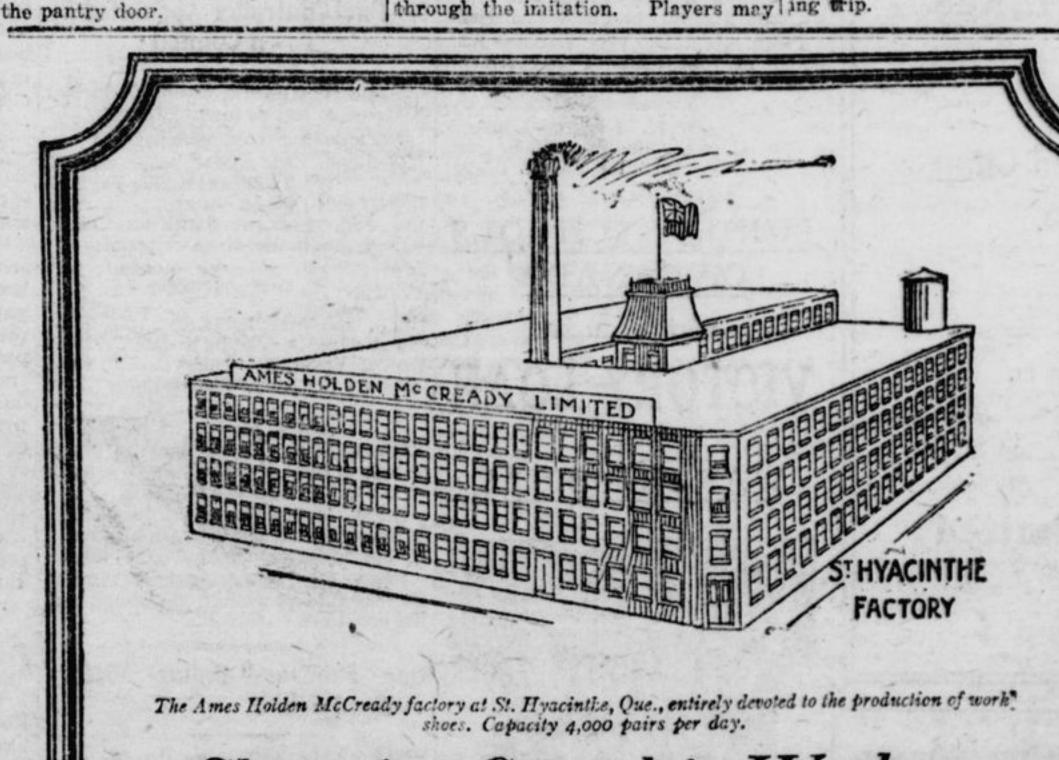
Lord had prospered him in his hunt. He was a master of religious sentithese ashes the birds seem to get ment. plenty of bits of charcoal to keep them 21. Isaac said unto Jacob, Come

In the gizzard of the fowl the feed struggle with intrigue is wonderfully instinct is all right even if her brain place in the Jewish conceptions of the

come along later in the winter.

29. Let peoples serve thee-The second part of the blessing relates to the Azoturia rarely appears among ond part of the blossing future of the horses at pasture or among those do- descendants of Jacob. It is the suing regular work; but almost invariably during exericse after a period of idleness on full feed which has succeeded a previous period of work.

descendants of Jacob. It is the surpremacy of the Israelites over surpremacy ove



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