Farm Crop A ** Queries

CONDUCTED BY PROF. 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 solls and crops. Address all questions to Professor Henry G. Boll, 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 mailed direct. Copyright by Wilson Publishing Co., Limited

H. E. B.: I have a field that is | E. O.: I want to plant sweet clover with the flat top, the ventilator gensandy loam (some of it is quite light) to grow seed on a field of clay loam erally being an open window in the on which I lost the clover seeding last soil. It is alsike clover sod, fall- side or end. Go into such a house on year. This field will be pasture for plowed, and has never had any lime a cold day, and you will notice moistwo years so I am not particular about applied. Hydrated lime is the only ture on the ceiling. That is proof the grass, only would rather have kind we can get here. I would like that the air is not circulating as it clover. How much seed do you sow? to know how much lime I ought to should, and the resulting dampness Would you innoculate for both seeds, apply per acre. also how do you proceed? This land Answer: I would advise you to lime building makes poor living quarters. is now planted to wheat. Would you the soil in question with about 11/2 If it is necessary to shelter your

sow the clover seed broadcast late in that matter, as the season was not and other ailments that cut down egg ables the caretaker to regulate it ground, those in front should be sevof the land. The cracking of the soil or ten days ahead of the oats, and be well to harrow the ground lightly, of the oats? My oats are a fairly setting the harrow teeth back so that early strain. What variety would be harrow with the rows and not across poses and what amount should be them. Do not do this if the clover sown per acre? I prepared my seed-

I would advise you to apply about Should the ground be plowed? the ground in the spring. Scatter this attempt to gather seed for a succeed-with Israel's attitude toward the time. The first command to preach to Nineveh is given in ch. 1.2 Israel will rise rapidly until it reaches a warm hotbed to exposed conditions.

The heat in a newly-made hotbed will rise rapidly until it reaches a warm hotbed to exposed conditions.

The heat in a newly-made hotbed will rise rapidly until it reaches a warm hotbed to exposed conditions.

The heat in a newly-made hotbed to expose conditions.

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marl to find its quality as fertilizer. but of good peas, mixing them in the land and created a bitter and intoler proportion desired. It is natural that ant spirit toward other nations. In the story before us Jones appears as great Assurian Empire was situated Answer: Marl is not a fertilizer in the strict sense of the term, neither is lime. Both of these are soil corsisting. Both of these are soil corsisting the peas should have ripened ahead of the story before us Jonah appears as great Assyrian Empire was situated the type of his narrow and exclusive nation, as a good Lew who refused at northward of the Greater Zab. Under the temperature gets down to field. If they are moved directly to For remember this, the more your field. If they are moved directly to For remember this, the more your field. If they are moved directly to For remember this, the more your field. sere will show you how thoroughly it using a mixture of two bushels of

ASSETS

CASH INCOME

Increase for year

Increase for year

ASSURANCES IN FORCE

SURPLUS over all liabilities and capital

PROFITS paid or allotted to policyholders

PAYMENTS to Policyholders, Death Claims,

NEW ASSURANCES issued and paid for in

Increase for year

SUN LIFE ASSURANCE

COMPANY OF CANADA

HEAD OFFICE MONTREAL

some of those lightest in hull, which are Joanette or Daubeney.

Whether you disc or plow your soil should depend entirely upon the state of the soil in the spring. Speaking generally, it is best to plow medium



house means more than an opening that will allow cold air to rush into the building. Every farm flock, to be healthy and profitable, must have proper ventilation.

Each building has its own problem of ventilation. There is the building is very injurious to the fowls. Such a

harrow the seed in or would it dam- tons of hydrated lime to the acre. poultry in a flat-roofed building, by would make it possible to regulate the Apply this broadcast as soon as the all means place a ventilator through air current. Answer: I would advise you to sow snow is gone and harrow it in as the roof so the used air and moisture The amount of air admitted should, 18 to 20 lbs. of good clover seed per you are working down the seed-bed. will be carried out promptly. A gal- of course, vary with the number of nere. If you wish to get a good catch Proceed as suggested in the answer vanized iron ventilator costs more fowls. Since this number is a vary-

cal Dept., O.A.C., Guelph, who sell the inneculating material at a nominal oats per acre. I cut and threshed inneculating material at a nominal oats per acre. I cut and threshed building, tightboard fence or a grove. Some noultry houses are onen to the seed and owned a number of city blocks and the seed and owned a number of city blocks and the seed and owned a number of city blocks and the seed and owned a number of city blocks and the seed and owned a number of city blocks and the seed and owned a number of city blocks and the seed and owned a number of city blocks and the seed and owned a number of city blocks and the seed and owned a number of city blocks and the seed and owned a number of city blocks and the seed and owned a number of city blocks and the seed and owned a number of city blocks and the seed and owned a number of city blocks and the seed and owned a number of city blocks and the seed same as other grain, but the peas Some poultry houses are open so the and one that can be profitably install-On the land where the wheat is high, or make a very luxuriant them, and in very cold weather this venient to have the door controlled. If the boards on the back of the ature should not be in the same secnow standing I would advise you to growth. Neither did the oats, for is pretty certain to cause frost-bites from inside the building, as that en-

Smoke

The Tobacco of Quality /2 LB. TINS-and in p'kgs.

humanity he claims the universal pos-

in the springtime will allow the seed to be sufficiently buried, so that it will get a good start. If the wheet ting. I sowed 100 pounds of sixteen to the sashes, enabling water to run off quickly. This will allow, too, a better utilization of the sun's heat; Replace the sashes and keep the temporary of life. All the time he kept thinking, water over the bed to moisten the soil. Replace the sashes and keep the temporary of life. All the time he kept thinking, water over the bed to moisten the soil. Replace the sashes and keep the temporary of life. All the time he kept thinking, water over the bed to moisten the soil. Replace the sashes and keep the temporary of life. All the time he kept thinking, water over the bed to moisten the soil.

MARCH 5

they will not drag out the wheat, and best to grow with oats for seed pur- Jehovah's Mercy to a Heathen City, Jonah 3: 1-10 Golden Text-Isa. 55: 7.

bed last spring with the disc harrow.

A. P.: Please tell me how to test bin of good peas, mixing them in the faith and created a bitter and intoler-time he obeyed. from a bin of good oats and from a proved a stumbling-block to Jewish brought him to his senses, and this are to be used, or about four inches if When ready to transplant, thorage and strive and striped at the striped at the striped at the striped at the striped a

bonate of lime that they carry they correct the sourness of soil. You because they were his heathen larged, strengthened and beautified. Some should be soil because they were his heathen larged, strengthened and beautified. So deg. F., rake the soil with a garden rake; then level the soil. Firm the entered to be so he saw that the gospel on its adornment and fortification. especially valuable when the crop is could send a sample of your mark to cut green for hay. The acid phosphate would of course react on the ripening of both crops alike and would not be quantity of calcium and magnesium of both crops alike and would not be assumed to consider the course react on the ripening of both crops alike and would not be was to lift the Jewish nation to a which the inhabitants had depended; as we go along. Love of one's work now; a passion for doing, for the sake of the good one may do and receive

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31,107,149.16

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1921

THE MOST PROFITABLE YEAR IN

THE HISTORY OF THE COMPANY

Results for Year Ended 31st December

Increase for year : . . . 2,355,570.73

the slant should be toward the south. perature between 75 and 85 deg. F. self." Throw the manure (use fresh horse When young plants appear, give The time came, but something had

attempt to gather seed for a succeeding year's mixture from the crop grown this year. The proportion in weight or volume that the various grains yield is not the same proportion in which they were sown, due to a the different prolificacy of the crops.

The degree to gather seed for a succeed-with Israel's attitude toward the heathen neighbors. The proportion in beather neighbors. They prided themselves on having the howeledge of the true God, Jehovah, and on being his peculiar passion on them, whereas Jonah presents and the Lord would have compassion on them, whereas Jonah presents and the Lord would have compassion on them, whereas Jonah presents attitude toward the last of it.

There is something sombre and the two dots of the constant of the plants accustomed to preach to some thing more than a cold frame—which is not the different prolificacy of the crops.

The discovered frame which is not the different prolificacy of the crops.

The discovered frame which is not the different prolificacy of the crops.

The discovered frame which is not the temperature drops below 90 placed on the ground; just like a hotling one is doing; to live only for the morrow's hope that

give you an idea as to its value as a the peas. The varieties Dr. Zavitz that the one God is the creator of the borhood of the Tigris." "Its markets alleges that the Persians made their 2. The book of Jonah is thus an moment by moment, here is the true were thronged with merchants and animals share in the mourning cus- anticipation of the wide sympathy of traders, and its library was stored toms. The Ninevites were instructed Jesus. Luke has preserved for us the the corrects the sourness of the soil equalpeas and one bushel of oats per acre.

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Outp V. 1. Jonah; is the hero, but not (Saves) with thousands of clay books" by the edict that they were first to immortal parable of the Good Samarany of the early varieties, preferably self wrote the book. There was a Hebrew means literally "great for sinfulness—and the violence that is in against the narrowness, intolerance, so that some days we may been been selfishly scheming and agonizing, God" that is, great even according to their hands; the social oppression that against the narrowness, intolerance, so that some days we may lean back

instinctively that the reason lay in punishment that should have been their sinfulness. "For this teeming meted out for their sin.

sibility of repentance,—that and no-thing more" (G. A. Smith).

solidate was indiginant that his preaching had awakened the Nine-vites, his nation's foes, to repentance, Jonah was indignant that his thing more" (G. A. Smith).

II. Repentance, 5-9.

V. 5. The people of Nineveh believed God. They believed that God would carry out the threat and so they repented. Notice that their repentance was immediate and all-inclusive. The Ninevites contrasted favorably with the Israelites who had many prophets and a long term of grace and yet had not fully repented. One main point in the story is that the knowledge of Jehovah awakens an instinctive response even among the heathen. A gourd, would not God show a far greater concern for a whole city of the people of Nineveh. If Jonah had shown so much concern for a short-lived and comparatively worthless mikking-tube that has been boiled for Jehovah. These are the limit of the people of Nineveh its edges and was unkind to you.

II. Repentance, 5-9.

IV. 5. The people of Nineveh believed and that as a consequence God had and that as a consequence God had the middle of her teat and it is very troublesome. Can you advise me whether there is any treatment that the first the government of the middle of her teat and it is very whether there is any treatment that the first the government of the middle of her teat and it is very whether there is any treatment that the first the government of the first the government of the first the sow, cast-and a long term of grace and yet had the real significance of his pardon of the people of Nineveh. If Jonah had shown so much concern for a short-lived and comparatively worthless mikking-tube that has been boiled for fifteen minutes. Make a new fresh limit the solution of the false opening by cutting the first the solution of the false opening by cutting the first the solution of the false opening by cutting the first the solution of the false opening by cutting the first the solution of the false opening by cutting the first the solution of the false opening by cutting the first the vites, his nation's foes, to repentance, in the middle of her teat and it is very

ing was a visible expression of penitence as here. (See 1 Kings 21: 27; Neh. 9: 1). Ashes; were also used to express mourning and penitence. They were thrown up in the air so as to alight on the head and sometimes the alight on the head and sometimes the book lay in the amazing story of the last layer of gauze to the one below. In two weeks saturate the bandage with alcohol and remove it carefully. The gauze should be interfere with circulation. The op-

alight on the head and sometimes the penitent or mourner sat on them (see Job 2: 11). That the king himself should have repented so deeply shows the profound effect Jonah's preaching had on Nineveh.

Vs. 7, 8. Not content with merely setting a precedent, the king, by his edict, commanded a national repentance. As head of the state he was in charge of the religion of the state he was in t

How to Make a Hotbed

a divine standard. The city occupied was practiced among them, such as and blindness of his own fellow- and be happy, the boys and the girls about 1,800 acres and was surrounded the maladministration of justice or them that God cared for sincerity and the since

Jehovah awakens an instinctive response even among the heathen. A fast . . . sackcloth. These are the outward signs of grief and self-abasement. The people of the East show their feelings with far less reserve than we do.

V. 6. The report of Jonah's terrifying announcement penetrated into the royal palace so that the king also repented and abased himself. Sackcloth was a rough cloth made of the hair of camels and goats. It was worn in times of great trouble such as mourning for the dead, and along with fasting was a visible expression of peniing was a visible expression of peniI. The sad fate of the Book of after stitching the last layer of gauze
You'd be so busy you'd forget,

AS YOU GO ALONG

Cake made and set away on the top shelf dries up, gets hard and chokes a fellow when it goes down. And yet, thousands of men are working their heads off, thinking, "Another year and I'll be over the peak. Then I will begin to enjoy life. Little dull stedding just now; but it will be all right to-morrow."

But somehow, things do not turn out just as you thought they would. Next year brings newer and bigger dreams. "Got to have a few hundreds or thousands more. We'll have the half-section we added to the old place all paid for soon. Let's keep pegging away a little longer. We will come through to sunlight pretty soon. Then we will have our day off, lie in the shade and enjoy ourselves."

Friend, the time to enjoy is NOW. It is one of the strange things of life that if we do not take our enjoyment as we go along, we will lose our chance and never take it.

Do you remember that man who had the big farm over yonder? If ever a young farmer had things in his favor, than a hole slashed through the sid- ing one, there are worth-while ad- inch, used or unused lumber; or if a inch board as long as the inside width he climbed the ladder until no man R. H.: I sewed some field peas last ing, but it is the only way to make vantages in a ventilation system that permanent hotbed frame is wanted, of the hotbed. Make one edge of the anywhere around had more land or terial comes in bottle form with full jear with oats, sowing thirty pounds instructions. Write the Bacteriological Dept. O.A.C. Green with oats, sowing thirty pounds of peas to one and a half bushels of the soil every four inches to make further is protection on the north—a the soil every four inches to make further is protection on the north—a the soil every four inches to make further is protection on the north—a the soil every four inches to make further is protection on the north—a the soil every four inches to make further is protection on the north—a the soil every four inches to make further is protection on the north—a the soil every four inches to make further is protection on the north—a the soil every four inches to make further is protection on the north—a the soil every four inches to make further is protection on the north—a the soil every four inches to make further is protection on the north—a the soil every four inches to make further is protection on the north—a the soil every four inches to make further is protection on the north—a the soil every four inches to make further inches the soil every four inches to make further inches the soil every four inches to make further inches the soil every four inches the soil every four inches the soil every four inches to make further inches the soil every four inc

manure) into the hotbed pit, which is them fresh air every day if the wea- happened to him. His capacity for entwo feet deep, in successive layers, ther permits. Avoid watering too joyment was paralyzed. The nerve continuously tramping. Fill the pit heavily; too much water causes poor which connected his heart with peace to within four or five inches of the root systems, as well as fungous dis- and joy and comfort had been cut. He top of the frame on the south side. ases. Use just enough water that was a poor, disappointed, defeated Lesson Foreword—It is difficult to prophet by this name in the reign of The manure will settle several inches plants do not suffer for moisture. On man. His going left no gap. He never Should the ground be plowed?

Answer: In the matter of seed of mixed grain it is not advisable to go on the plants. This makes hardy plants.

Should the ground be plowed?

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Answer: In the matter of seed of mixed grain it is not advisable to go on the plants. This makes hardy plants. also as soon as you are able to go on the spring Scatter this mixed grain, it is not advisable to is, after B.C. 586. This book, he could not have been mixed grain, it is not advisable to is, after B.C. 586. This book deals the hero of our story. The second Never transplant directly from a you pulled it out, the place closed up the last of it.

start and will do a lot to ensure a good stand of clover as well as to Therefore next was take your coal live only for the morrow's hope that may never be realized; to struggle

pathway to the best.

How it hurts to waken up after a nightmare of dollar-chasing only to about 1,800 acres and was surrounded the maladministration of justice or with walls surmounted by towers and the pilfering of the poor by the rich.

V. 9. These people who stood outhuman service wherever he found it.

V. 9. These people who stood outhuman service wherever he found it.

Jonah himself was petulant, bitter.

The brown hair on the head of the pierced with gateways. These walls rose to a great height and were in circumference about 7½ miles. Of three days' journey. The reference is to the diameter rather than to the circumference. It required three days to go through the city from one end to the other.

V. 4. A day's journey. Jonah had penetrated almost to the heart of the city when he began to preach. Yet forty days, etc. The Ninevites were not told the reason for this startling announcement but they would feel instinctively that the reason lay in the circumference about 7½ miles. Of the covenant with Israel had a conscience, once awakened, told them that God was under no obligation to spare them that God was under no obligation to spare them from the deserts of their wrongdoing.

III. Forgiveness, 10.

One of the leading ideas of the book of Jonah is that God is full of compassion not only for Israel, but aiso for the heathen. The faintest trace of repentance on the part even of the heathen softens God's heart and announcement but they would feel instinctively that the reason lay in the covenant with Israel had a conscience, once awakened, told them that God was under no obligation to spare them that God was under no obligation to spare them intolerance and pettiness, and to show in that there was "a wideness in the home are vacant. The brown hair on the head of the catually sorry that the foreigners—the Ninevites—were repenting under his preaching. The Lord was compelled to reprove him for his frightful intolerance and pettiness, and to show many a thread of that silver came because of our own hurry and worry and fret and unkindness. Lost out!

Let's not do it! Let's build up the old farm the best we can, rich in peace and happiness day by day. Let's link the young folks to us by the bonds of love now while we have them with the normal peace and happiness and happiness day by day. Let's link the young folks to us by the bonds of love now while we have them with the normal peace and happiness day by day. Let's link the poung folks to us by the bond

us. Let's live for the brightness and happiness we can find in the world this very day; it is the only time of



is the greatest need of the nation.

blessed with amazin seems to justify th ruined another man One morning, he rel Pittsburgh with a par and cheques under h the package was to pockets. He was a railroader at that the rough ride over the r one place, uneasily package, he was horr the folting of the tra

Stranger The

Business acquaint

of Andrew Carnegie

ability and farsigh

would ruin me, for to for the pay rolls and ing. I called the er

French Tractor S Original in D

Natural Mistake. Mistress-'Bridget, what have you done with that by breakfast food? Bridget-"Food, was it

pup to "Le ou."

ONTARIO ARCHIVES TORONTO