Business Interest Is Aroused

By Henry G. Bell, B.S.A.

to-day says:

more keenly conscious of its depen- bad weather. dence on agriculture. . . . The pres-

The outlook for the wheat crop is stools depends on: promising. Wheat at \$1.80 a bushel offers an encouraging margin of profit. and improved methods of farming are making that business as efficient as any other."

Undoubtedly the last half year has seen such rapid decline in prices for most farm products that many a farmer has been somewhat discouraged with his business. His livestock and livestock products have fallen off in value at an alarming rate. Many of his money crops have been sadly hit. Still the great demand for wheat keeps this important farm product in a commanding position. Especially in those southwestern counties of the province where tobacco, sugar beets, and the like have heretofore been the money getters for the growers, is this question of wheat growing of great importance. From a climatic and soil standpoint, no counties of the Dominton should be capable of producing ment Station has carefully investigatbetter yields of wheat than the "corn ed this point and has found relative per centage of loss.

cessful season, or at least to a season by live stock, more extensive use of that just One, and shouldest hear the desired to stay field, fewer and larger fields and perhis witness unto all men of what thou per centage of loss.

cerning wheat growth which could be is true that this work was carried out habit. if wheat growers would but take time carrying it out continuously in your

One of the leading morning papers light dressings of manure as far as possible, and with sufficient high-"During the present moment all grade fertilizers, so as to give the eyes will be fixed with anxious inter- young plants that vigorous start est on the prairies. . . Seldom has which will make it possible for them so much been staked on a single har- to make firm attachment to the soil vest. Seldom has the country been and to prepare for the emergencies of

Make Top as Well as Root. ent year is the grain-grower's oppor- Plantfood has a large bearing on turnity to retrieve his losses, pay his stooling. The young plant has not debts and get a solid footing again. only to develop a large and sufficient Prices will be much lower than two growth of stalks underground, which years ago, but much higher than the we call root, but it must produce also pre-war level, but costs of production those stalks above ground which are have receded in the past year. . . . called culms or stools. The number of

(a) The variety. Various kinds of

(b) The largeness of the meal ob-The Delaware Agricultural Experi-

counties which are capable of produc- ing cut. To Pot 5 no plantfood was ting large and valuable fall wheat applied, to Plot 11 phosphoric acid larger than hens' eggs, put in the feed in labor costs. was applied, and to Plot 9 nitrogen box, will keep horses from bolting There are fundamental studies con- and phosphoric acid was applied. It their feed if they have formed the made of tremendous productive value in the plant laboratory, but nature is to study their crops and analyze their fields, and precisely the same results



HOW TO INCREASE WHEAT YIEIDS

good root development. Constricted where it has a medium supply, or root range may upset development where it has a meal large enough to of course the roots of any crop consatisfy all its needs. Remember the The fact that on roads with improved road, from 5,000 to 8,000 pounds; on a brick or concrete effective way to silence him. But they Christian. There is what someone attached to the plant when it is pulled fall and next spring will depend upon dependent of the season of the year or from the soil. There are myriads of how thoroughly you prepare the home weather conditions means another small rootlets which strike out through of the plant and how well you balance very considerable reduction in hauling road surfaces a horse will haul on a incident of his escape in a basket low-sends along the nettles and weeds. A the spaces in the soil, and from each its food rations, and this thought costs.

The cost of transporting goods to the last observation which is, have of the spaces in the soil, and from each its food rations, and this thought costs.

The cost of transporting goods to the last observation which is, have of the spaces in the soil, and from each its food rations, and this thought costs.

The cost of transporting goods to good macadam road from three to ered from the city wall is mentioned house left standing without occupants will rot and mould and fall to pieces bers of other small hairlike roots that plantfood and yield are directly the railroads and of farm produce to as upon a moderately muddy earth 32-33. which are commonly called root hairs. connected. The materials which aid markets is high, due mainly to steep It is estimated by plant biologists that the formation of starch, protein and grades and yielding road surfaces on horse is careble of a considered by plant biologists that the formation of starch, protein and grades and yielding road surfaces on horse is careble of a considered by plant biologists that the formation of starch, protein and grades and yielding road surfaces on horse is careble of a considered by plant biologists that the formation of starch, protein and grades and yielding road surfaces on horse is careble of a considered by plant biologists that the formation of starch, protein and grades and yielding road surfaces on horse is careble of a considered by plant biologists that the formation of starch, protein and grades and yielding road surfaces on horse is careble of a considered by plant biologists that the formation of starch, protein and grades and yielding road surfaces on horse is careble of a considered by plant biologists. the total roots of common farm crops other components of your wheat crop unimproved roads. The worst grade horse is capable of a certain fixed it was before his preaching in the swear. Such a man may well rejoice may vary in length from 500 yards to enter the plant through the tiny root- on any road tends to limit the load duty each day. Then, with a given synagogues, or after, that he went, that he is delivered from such things, 15 miles, that is the normally de- hairs already described. Now that ma- that can pass over the entire road. load, the effective radius of travel we do not know. At least it was three but unless he is actively employed in veloped plant may come within this terial must be carried in the liquid For example, if a 1,200-pound horse, from a given point on a macadam road by averting a force and to the feeture of the evil spirits will be feetured to that city. plant may have much less feeding sur- if the ramifying root-hairs are to ab- of his weight, can draw a load of 2,000 of travel from that point on a modface, because the roots are the hands sorb it. It is unnecessary to enlarge pounds on a level earth road, with the erately muddy earth road. and mouths of any plant. Just where on this phase of the subject more than

(c) How strong is the pushing Ohio power, or life in the plant back of the root, giving the plant power to shove its roots out into regular areas. This last depends upon the sup-

ply of well-balanced available

plantfood.

Cause and Effect. Plantfood and rooting are intimateby related. I do not need to tell practical farmers that rich coils produce greater root growth than poor. Yet many a wheat grower wonders what is the matter with his wheat crop when he sees it stand still, or, after a Pennsylvania period of rather unfavorable weather, be sees parts of his field killed out. If he examines a little closer, often he finds what is commonly called "heaving." This is caused by the water in wheat crops next summer are to show the better and harder the road surface lous crops and the acreage yield in the soil freezing. It is a law of that improvement which is possible, the more imperative it becomes to tons can be compiled, it will be of in freezing. Therefore, when the soil and agree with the things that are Excessive grades are usually unservice of the road. water expands one-tenth it raises said about essentials to increasing necessary. Steep grades have come A traffic census should be made and milk products is of as much concern other well-known scientists are to be everything with it. When the ice melts crop yields, but they must actually about largely from the desire to lay the total hauling charges for the com- to the Canadian people as to those of examined and are expected to furnish the soil drops back into place, but the put these suggestions into practice, out roads in straight lines and along munity should be approximately estiroots of clover and fall wheat are In other words, get good seed wheat farm boundaries. The gain in distance mated. From a strictly business that are taken in the one country to evil effects arising from the consumpbut high and dry sometimes to the now. Obtain fertilizer suited to your in passing over a hill instead of standpoint it then becomes necessary ensure purity are of much interest in tion of impure and inferior articles extent of two or three inches. It is conditions at the earliest possible around it is very slight. Many roads to make a conservative estimate of the this sort of thing which roins the date, so that you will be sure to have have been relocated around hills with reduction in hauling costs that will there are two bills before the House mixed therewith. growth of the wheat crop, because un- it on hand when the ground is ready no addition to the length.

the root range of your wheat crop lies to point out a few actual field tests. he can draw continuously only about have information which will enable These establish the principle beyond 1,000 pounds on a five per cent. grade them to establish, in some measure, so that the root hairs can press Many of them have been in operation per cent. grade. beyond the lifetime of most farmers,

> Wheat Yields Per Acre. No Fertilizer 11.4 With Acid Phosphate 19.6 With Comp. Fertilizer 28.8 Delaware No Fertilizer 11.5 With Acid Phosphate 19.8

With Comp. Fertilizer 28.9 No Fertilizer 13 With Comp. Fertilizer 21 Virginia No Fertilizer 9 1-3 With Acid Phosphate 11 1-3

No Fertilizer 13.4 With Acid Phosphate 16 With Comp. Fertilizer 25.7 boid numbers of tiny active wheat for wheat sowing. A very little extra

root-hairs are broken off and it is ploid will pay for 206 to 400 lbs. of case where a properly relocated road a part of the reduction in the total milk."

There has never been on record a case where a properly relocated road a part of the reduction in the total milk."

One of the measures known taller than the Briton.

farm management that large yields reduce production costs, also that sufficiently large yields increase labor income. Many of these terms are more come. Many of these terms are more. In the great majority of agricul-or less foreign to the every day man, tural undertakings, labor is the costly

tory—the farm—by increasing acre price of the product warrants. Howend is to fertilize abundantly.

Improvement in Fruit Handling.

these things considered and with the With little or no control on the

Select Lines of Production With Minimum Labor.

but in these times when cost must or money consuming factor. The solutely necessary that the younger of food crops the greater the expendifarming population of the country ture of labor for each food unit profamiliarize themselves with the vari-duced. If consuming markets will

production. One of the most productive, special conditions that justify tive ways of accomplishing this great heavy labor expenditures are usually farm practice have not a selling value Christ's coming in the Jewish writusalem.

Sufficiently high to permit of a labor ings which he knew so well. He could The disciples, that is, the Christian Experience has abundantly proven sufficiently high to permit of a labor the advantages derived from standard-expenditure equal to more than 50 per ized handling, grading and packing of cent. of the selling price of the protainable. Growing wheat, like have been greatly lessened and almost encouraging. Where selling prices doctors on their own ground. Much said of Barnabas in 4: 36, 37, and 11: any other type of creation, is minimized. Investigations have shown vary as much as 600 per cent. in one capable of doing just what the that careless picking has also been year, for certain commodities, those food-strength back of it will en-largely responsible for decay and who are forced to sell at the lower But above all else, in Paul's prepara-found much fault with him in later able it to perform. If the food waste. This, too, is receiving careful level are not likely to receive suffi-

plantfood is sufficient and wellthe advance in marketing arrangesell from the farm, the adjustment of balanced the number of stalks ments, and the greater care that is the labor cost of operation is apparwill be greatly increased, the being taken in transportation, officials ently the most likely way to obtain heads materially lengthened of the co-operative fruit-growing and relief. The intelligent use of crop and the kernels which form will dealing associations and of the gov- rotations in farm practice, more exmanent crops where possible, are some A few smooth round stones, a little of the ways that will lead to reduction

> Chronic kickers soon develop whine that won't wear off.

Money Advantages of Good Roads

Bv M. O. Eldridge

The increase in the value of farm Many attempts have been made to of His people. lands is an example of the indirect fix the relative weights which a horse 21-22. All that heard him were the cost of hauling and the increase in fairly reliable. farm values are not entirely separate On a muckly earth road the ar

(b) How thoroughly the field is but in this land of plenty little atten- on common earth roads, they are far its calculations upon generalized data Sometimes I'm mother's little for, drained, so that there may be tion has been given to the plantfood more so on an improved road. Sup-deduced from nation-wide observa- A nice one, very tame; sufficient moisture, but not side of wheat growing up to the pres- pose that a 1,200-pound horse can tions. What is needed in the indi- And then we play that one glad day draw a load of 2,000 pounds on a level vidual instance is an understanding. Out of the woods I came. earth road; under the same conditions of the methods which must be emthis horse can draw continuously a ployed to establish the economic con- When I'm a fox her little girl bus. load of 5,000 pounds on a level ditions in the locality. Certain facts bus. macadam road in average conditions, which are essential, such as the area I don't forget to say: "We met bus. but on a five per cent. grade he can of the road district or other highway. Out in the woods to-day." draw only 1,600 pounds, while on a ten unit, the number of miles of roads of bus. per cent. grade the load would have various classes and their distribution, Then mother makes the loveliest den, beginning of senile decay. He attribus. to be reduced to 960 pounds. Thus, the more important crops, the number All deep and dark and snug. bus. while the load which can be hauled on of miles of railroad and the number (Table, you know, that's used to sew, opment of orientals to the general bus. double that on the level earth road, may be accurately obtained Likewise, bus. the load on a ten per cent. grade is the prevailing cost of teams with And then, while mother sits and sews, who have milk as the basis of their bus, macadam than on the earth road.

Therefore, when a road is hard sur- haul are less easily obtained, but they With Comp. Fertilizer 14 2-3 bus. faced, the maximum grade allowed are essential in developing facts. must be low in order to secure the full When all the information has been bus. advantage of the hardened surface carefully studied it will be possible to bus. Steep grades are also slippery and derive ton-mile cost for the various bus. dangerous in winter, and the mainten- classes of commodities hauled. If the One thing is certain, if Canadian ance charges are always high. In fact, area along the roads devoted to var-

money advantage of improved road can draw in an ordinary wagon over amazed. They knew his fame as perconditions. However, it should not be level road surfaces of various kinds. secutor, knew why he had come to considered that the direct decrease in The following figures are current and the cost of hauling and the increase in fairly reliable.

Secutor, knew why he had come to Damascus, and were amazed that this (the seaport) and sent him forth

pendent. A farm increases in varies from nothing to a maximum of come their friend and advocate. Paul vince of Syria, Paul continued his value partly because the cost of hauling is decreased.

**Reference of the cost of haulto a maximum of come their friend and advocate. Paul work (Gal. 1: 21-24) until some years and making converts, until the Jews halos sought him to the helper and co-worker in the life helper and co-worker i own specific problems. One of the big are being obtained where your wheat

The increase of farm values must gravel road in bad condition, from of Damascus were aroused against the last helper and co-worker in the church at Antioch (Acts 11: 25).

road. This matter may be considered epistle (Gal. 1: 13-18), Paul says that not less. It is not enough that and

(a) How well your soil is opened up, any controversy. They are not new, and only about 750 pounds on a ten the money value of any proposed system of road improvement. However, While steep grades are detrimental it is undesirable for a locality to base

The average load and the average Or else steal out and prowl about great value in determining the annual

market is probably not so much in economically afford creased by excessive grades as by the in improved roads.

The Sunday School Lesson

JULY 24

be reduced to its minimum it is an more intensive the work in production Saul Proclaims Jesus as the Christ, Acts 9: 1930. Golden Text-St. Matt. 16: 16.

learning had not made him mad, but 22-24.

whom he had persecuted.

19-20. He preached Christ, declarfollow the improvement of public desirable road surface is hard and Christ, that is that He was the longroads in every community. These advantages are probably most apparent road is fairly hard at certain times in coming had been proclaimed by proin the reduced cost of hauling. Certain the year. Toe frequently, however, phets for seven hundred or more dependent or reflex money advantages at the season when the roads must be also arise in a community where roads have been improved.

Lee frequently, nowever, pricts for seven numbers or more by and consenting unto his death, and God, recognizing Him thus as divinely kept the raiment of them that slew have been improved.

dreaded and powerful enemy, who had Tarsus. letters in his pocket authorizing him

ous angles of farming business and warrant high labor expenditures, then doubt that Paul's early training in a usalem. The years in Damascus and pious Jewish home, his university Arabia had been years of preparation. manufacturing cost in their great fac- within reason, or whatever the selling education and training in the school In the quiet of some Arabian town, or of Gamaliel, his knowledge of the possibly in some monastery of the Old Testament Scriptures, and of the Jewish sect of the Essenes, to which Greek and Hebrew languages all he would have received a cordial and combined to qualify him in a unique kindly welcome, he studied his probconfined to districts where there is an way for his great task. He was now lem and sought to solve it in the light unlimited market for luxury food called to be a preacher of the gospel. of Holy Scripture. Now he is ready crops. But the ordinary food crops, He could find the foreshadowings of to begin the chief business of his life, that are most commonly grown in that gospel and the preparation for and he desires to begin it in Jer-

speak to people of all classes and napeople of Jerusalem, were afraid of tionalities in the universally spoken him. They had reason to be. They wheat have a slightly different fruits. Whereas under the individual duct. With selling prices for food synagogues in their own Aramaic, or a good man, liberal and kindly of istic methods that formerly prevailed products too frequently on the decline, in the Hebrew of their sacred books. spirit, took him and vouched for him, velop a small number of stalks, the losses in handling and shipping with labor charges and general overwere very considerable, by close sup- head charges comparatively steady, methods of the Rabbinical schools, and telling of his conversion and his ervision and active co-operation they the prospect of profit is not always could meet and reason with the Jewissi preaching in Damascus. See what is

supply in the soil is restricted expert attention that is resulting in cient for their produce to pay the the risen Christ, and his consciousness from the apostles in Jerusalem and did of the constant presence, working in not ask for any. His commission and early-maturing grain. If the development of cold storage facilities, price at which a food product must of God, which was to him identical ceived from Jesus Christ, when He with the spirit and the mind of Christ met Him on the way (see Cal 1: 1 with the spirit and the mind of Christ. met Him on the way (see Gal. 1: 1, From the day of his meeting with 15-19). He, therefore, felt that he Christ on the road to Damascus Paul had the same right to speak and teach believed himself called to preach the as James and Peter and the other be much more numerous and ernment departments are looking for- tensive use of properly developed of our fathers hath chosen thee that this right was freely accorded ward to a more than ordinarily suc- meadows and pastures, more grazing thou shouldest know his will, and see him by the leaders of the Church in

> hast seen and heard" (Acts 22: 14, in Jerusalem and to face whatever 15). Paul declared also that, in the hostility or danger to his life there vision, Christ had said to him, "I have might be. He wished to preach Christ appeared unto thee for this purpose, where he had persecuted His followers. to make thee a minister and a witness He was willing himself to suffer where both of these things which thou hast he had made others suffer, and so in seen, and of those things in the which some measure to atone for the wrong I will appear unto thee." (Acts 26: which he had done. He tells (22: 17-16). This, therefore, became the su- 21) of a trance, or dream-vision, which premo business of his life, and his one came to him in the temple in Jerconsuming passion, to preach Jesus usalem, while he was praying, in which the Lord appeared to him and commanded him to leave Jerusalem. Certain direct money advantages bad conditions of road surfaces. The congregations that Jesus was the long. "Lord, they know that I imprisoned and beat in every Stephen was shed, I also was standing dom and to work out the redemption tory, "Depart, for I will send thee far hence to the Gentiles."

Back in his own home city and

did not yet see that a crucified Christ has called "The peril of the empty These figures show that if the speed and a martyred Paul might still be heart." If our fields are not sown with of travel is the same on all these stronger than all their enemies. The good seed, then very speedily nature



And then go in again.

Till-oh, I need my mother's arms And do not want to roam: I creep up close and smile. She knows Her little girl's come home!

Importance of Pure Dairy Products.

these multitudes of active plantfood fertilizer par some. You can easily portance to the growing wheat. If the probable return would the probable return would the probable return would the probable return wheat the probable return wheat the probable return would the probable return wheat the probable return would the probable return wheat the probable return wheat the probable return would the probable return wheat the probable return would question of its material reduction of the trunk lines of the trunk lines of the trunk lines of the trunk lines of the probable return wheat the probable return would the probable return would question of its material reduction of the trunk lines of the trunk lines of the trunk lines of the probable return would the probable return would question of its material reduction of the trunk lines of the trunk lines of the probable return would question of its material reduction of the trunk lines of the probable return would question of its material reduction of the trunk lines of the probable return would question of its material reduction of the hauling cost.

The cost of hauling farm produce to market is probable not an adultion of the reduction in the total milk." Une or the measures known as the Veght bill prohibits the manufacture or sale of what it terms an adultion of the interest and maintenance charges which the community can known as the Beck bill proposes to don't believe God ever made anything prettier than a golden suppose the probable return would as the Veght bill prohibits the manufacture of the community must be regarded as measur
The cost of hauling farm produce to the annufacture of the probable return would as the Veght bill prohibits the manufacture of the community must be regarded as measur
The cost of hauling farm produce to the annufacture of the probable return would as the Veght bill prohibits the manufacture of the cost of the reduction of the cost of the probable return would as the veght bill prohibits the manufacture of the cost of the cost of th market is probably not so much in- economically afford for an investment tax and license the manufacture of the prettier than a golden sunset on a stuff with drastic regulations. Before field of ripening grain.

the House Committee on Agriculture which is engaged in investigating the merits of and the necessity for the Voght bill, some testimony has been given of vital importance and of noteworthy interest. One of the principal witnesses at the first sitting was Dr. E. V. McCellum, of Johns Hopkins University, Baltimore, a gentlem a well known in Canada for his teacaings. He detailed studies and experiments in which he has been engaged and which has convinced him that dairy products supply the only protective food likely to be used in sufficient quantity to produce a normal growth in children, preserve normal health in adults and prevent the early lack of dairy products in their dietary. diet. He showed photographs proving that ulcerated sore eyes and rickets resulted from a diet deficient in milk or its products. He thought that every adult should consume two quarts of milk a day. An authority who has also devoted considerable time and energy to research as regards dair; products declares that every argument Dr. McCollum advanced against the sale of counterfest milk applied with

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of Japan furi calling attenti known to the a Frenchmen we offerings star that the Princ the standard gramme weigh Pavilion de B These two ob has been acce nations adopt: are constantly guards appoin commission.

not approach None except th as the cellar's by a special a designed to pre ting in which cate objects. equal tempera brought from points on Swi themselves ar in slippers to 1 brations from guarded posit struments.

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Sold