## Farm Crop

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 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 ad-

dressed envelope be enclosed with the question, when

about one-half sand loam, balance alfalfa seed right on top of the growlight sand, which is pretty badly run ing wheat, especially when the wheat down. Have a good market for ber- has been fertilized. One of the leadries and truck and would like to ing alfalfa growers of Wisconsin has know how to treat the soil for best for years spring top-dressed his grain results for the following crops, which with a fertilizer analyzing about 2 I have the best market for: asparagus, to 3 per cent. ammonia, 8 per cent. rhubarb, onions (bunch and mature), phosphoric acid, and 2 to 3 per cent. potatoes, cabbage, tomatoes, cucum- potash, using it at the rate of 250 bers, sweet corn, strawberries, black- lbs. to the acre. This is scattered berries, red raspberies, and cherries, right on top of the fall wheat and Which of these will do best on this the alfalfa sown. Light harrows are kind of soil?

the answer will be mailed direct.

der your conditions, one is humus izer, which results in a considerable and the other plantfood. Strawy advantage in the wheat itself and almanure is of course a splendid source most insures an alfalfa catch. soil which will prevent winter wash- Answer:-Sudan grass is not a This again will form a cover crop to 1 bushel of each grain per acre. turn under the following spring. Ap- | S. M .: I have just moved onto a

hay from, for two seasons. Could I plow it, not this year.

1,000 lbs. per acre of a fertilizer ed in fertilizers. The best thing to is a wise precaution to disinfect. running about 4 per cent. ammonia, do would be to get a drill with fertil-8 per cent, phosphoric acid, and 4 to izer-dropping attachment. Relative nure is appreciated everywhere. The & Ler cent. potash. Work this into to the orchard, you do not say whether poultryman close to town or city, or the soil as the seedbed is being pre- you intend to clean the orchard up or in a district where intensive agriculpared, saving a little to apply around simply let it stand until you can des- ture rules, never has trouble selling the cabbage as they are being set, troy it. Assuming that the latter is it at a good price. The range of Do not let it come in contact with the case and you do not wish to plow prices is 50 cents to \$1.25 a barrel, the plant or the plant roots, unless it this year, I would advise you to with considerable quantities sold at it has been mixed with the soil.

wheat that I would like to seed this lbs. to the acre. You should use quickly loses its value when exposed spring. It was sod plowed for corn, fertilizers high in nitrogen, 4 to 5 then to oats, and now wheat. Most per cent. and about 10 to 12 per cent. of it was manured last fall. I put in phosphoric acid. It will be well to on two tons of lime per acre. Do you apply the fertilizer first, then scatter think it advisable to seed to alfalfa the seed, then harrow the sod if posin the wheat?

in fall wheat at the present time. growth which would give you some Exceedingly good catches of alfalfa good hay.

C. K .: I have ten acres of land have been obtained by sowing the then run over the patch, turning the Answer:-I assume that you do not teeth of the harrows back so that wish to grow simply one crop on your they will not drag out the growing farm, but you would like to know wheat, and harrowing the ground with which crops you should specialize in the drill rows and not across. This and how best to handle the land. stirs the ground just sufficiently to Two things are especially needed un- bury the seed and work in the fertil-

from which to get humus. Apply all D. C .: I would like a little inforof this that you can obtain at a reas- mation in regard to Sudan grass for onable price. As soon as your gard- sheep pasture, and the effect it has en crops are off,-such crops as on ground for following crops, as I onions, potatoes, cabbage, tomatoes, intend to put the above into wheat cucumbers, and sweet corn, sow a next fall. That is pasture with sheep mixture of rye and fall wheat. Do until time to turn under for wheat, this so as to get a covering for the twenty-five acres to thirty-five sheep.

ing. This material coming along pasture grass, speaking generally, early in spring will make a fairly but is grown for hay. It makes very rank growth by the time you have to rank growth, reaching a height of 4 plow it under in preparation for your to 6 feet, and compares with some of gardening operations. You will have the ranker growing millets. It grows to make liberal use of high grade luxuriously down the south-eastern fertilizer, applying as high as 750 coast, under semi-arid conditions, but to 1200 lbs. per acre for such crops is not advised where better quality as onions, potatoes, cabbage, and grass can be grown. A mixture of sweet corn. Use fertilizer of an an- timothy and clover, I believe, would alysis running as high as 5% am- suit your purpose much better in monia, 8% phosphoric acid and 4 to Ontario, than attempting this newer 6% potash, working this thoroughly material which is rank and poorly into the soil at the time the crops are adapted to the purpose for which you planted. After your early spring cul- are growing it. If you want an antivation of blackberries, raspberries nual pasture to use this coming and cherries has ceased-about the spring a mixture of wheat and oats first to middle of July-sow the same with a few pounds of clover seed mixture of cover crop, plus a little thrown in produces good annual pasclover, among these latter crops, ture mixture in about six weeks. Use

plying the fertilizer as advised, or a 160-acre sandy, gravelly farm, and I fertilizer carrying about 4 to 5% believe, pretty badly run. I wish to ammonia and 10 to 12% phosphoric sow oats and peas this spring for acid to the cane fruits, will give good quick hay. Are the peas sowed first, results. This should be applied in plowed in, and then oats broadcasted, spring just at the time cultivation or can I broadcast together and harrow in? Tell me just how to get the J. S .: - I want to grow some cab- best results. What can I put in an hage. I have a piece of clay loam old orchard sowed to June grass and soil that I have had in sod and cut used as a pasture? Don't wish to

expect a crop of cabbage on this, and Answer:-You can get very good what amount of fertilizer should I results from sowing a mixture of peas and oats for a good hay crop. Use Answer:-It would be better if you a bushel of each to the acre. These could pick out a piece of land that may be sown at the same time. Best has not been in sod last season. The results, of course, will be gotten by piece you have in mind would have drilling them in with a grain drill, been all right if it had been plowed and I believe in view of the run-down last fall. Of course it will give re- condition of the soil it should pay sults if plowed early this spring. My you well to add 200 to 300 lbs. of dden was that the sod turned under fertilizer analyzing from 2 to 3 per will have rotted more completely had cent. ammonia, 8 per cent. phosphoric the fall plowing been done. Under acid, and 2 to 3 per cent. potash. This either case, of course, you can expect would give early food for the oats a good crop of cabbage. To assist and peas as they sprout and would your soil toward this end I would mean an additional yield which would advise you to use as high as 750 to pay big interest on the money investscatter some clover seed on top of \$1. More poultry keepers choose to the ground and to-dress the soil with A. J. K .: I have eight acres of fertilizer at the rate of about 300 stored in a protected place, as it sible so as to work the seed into the Answer:-I assume your field is ground slightly. This should make

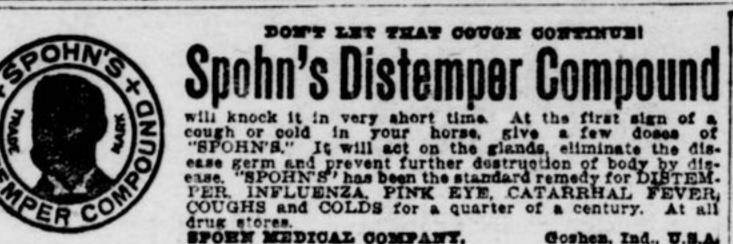
manure removal are made only to be broken. Some commercial poultry keepers successful ones, too clean the roosts only twice a year, in spring and fall, and are skeptical of the practical features of any other policy. It some of the commercial poultry farms is not slovenliness on their part, is to clean daily, and to paint the either. They dispense with dropping-

on the pile.

thirty-five minutes. On a farm where Leghorns and Reds are both kept.

At two times frequent manure removal from dropping-boards is of especial importance. One is the warm Then Robin, Spring attending him, months when mites may become a big drain on the flock. The practice of With nothing recommending him ex- of their enemies. roosts every fortnight with a coal-tar He filled a dreary vale or two with boards and let the manure accumulate disinfectant. Of the two measures. in a boarded-off space on the ground. they declare daily manure removal Then ran a merry scale or two to Occasionally they throw absorbents does more to defeat the mites.

A big Plymouth Rock poultry farm the market, or they can be improvised rainbow in reply; planned combination of convenient house has board floors, at cleaning roosts and overhead metal litter car- time manure will sometimes be found Not one for dilly-dallery, Friend a little to the north of Jerusalem. | chariots of from the woodwork was rier, it removes the manure of 1,600 dried to the floor in spite of the deep-birds and deposits it in an outside, est litter. Water will soften the macovered concrete manure pit, all in terial, and permit a thorough clean- worm, from out the ground.





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ing job. At cleaning times it always

use it on their own land. It must be Deborah and Barak Deliver Israel— the magnitude and peril of the enter- rain, a swiftly rising flood, and the the market, particularly where there



A Rainy-Day Magician. The flowers looked mussed and sleepy-

came hippy-hop along, cept his little song.

tuneful exercise. cheer the rainy skies.

bud and butterfly.



APRIL 11.

Judges 4: 4-5, 31. Golden Text -Psalm 46: 1.

verses of the chapter are the introking of Hazor, and his captain, Sisera, woman. faced, the woods aloof and cool: | Israel. The historian tells us that Tabor.

fight their oppressors.

of Palestine (see Josh. 11: 1-15), and him." With his little army of ten which seems shocking to us but was very evident. Many farmers are now over whose king and people at an thousand men, ill-equipped but stimu- regarded as justifiable and praise- draining wet spots, removing trees, earlier time Joshua had won a great lated to enthusiasm and daring by the worthy in the minds of the people of stumps and brush, and straightening victory. Now they had recovered presence of the heroic woman who that primitive age (see 5: 24-27). It fences so as to make their farming manure of 500 birds is removed in ten The clouds were gray and weepy- power and were using it against promised victory, Barak marched to has taken the world a long time to operations easier. In the olden days the king "mightily oppressed the 12-13. They Told Sisera. Nothing is enemy and to overcome the passion hours to do a certain job. With the

faced like children tired of school. children of Israel" (4: 3). The Song said of the king's participation in the of revenge and hatred, and not even present scarcity and cost of farm of Deborah (chap. 5), says, the high battle. Sisera appears to have put yet is that great lesson rightly learn- labor it does. Often the land reways were unoccupied, and the travel- great dependence upon his chariots, ed. The student will do well to com- claimed pays the expenses of tour lers walked through by-ways for fear but owing to the marshy nature of pare the Song of Deborah with the rangement the first year. the country and the river floods they lesson story, and to notice its intens-The people, held miserably in sub- were probably of little use. The He- ity, its passion, its graphic power, and jection, lacked food, and they had not brews had no chariots until the time its dramatic qualities which find even weapons of war with which to of David (2 Sam. 8: 4). The chariot expression in successive vividly pre- strongest forts. had a light wooden body, open behind, sented scenes, proceeding rapidly to a Deborah was a prophetess. She was a single stout axle with two six to climax in which the tidings of defeat inspired by Jehovah. Because the eight spoked wheels. The pole was and death reach the mother of Sisera incident, but staying there is an Special roost-cleaning tools are on The skies composed right wittily a people of that part of the country fixed into the arle, bent up in front, and her companions, who are eagerly achievement. believed her to be so inspired they and fastened by a band of leather to looking through the latticed windows is proud of its efficient manure-re- at home. A good scraper helps to The meadows answered prettily with invested her with authority. They the front of the chariot. Two horses for the return of the victors. A well-kept woodlot or a plantation

MESHELEN LAW

Address all communications for this department to Mrs. Helen Law, 235 Woodbine Ave., Toronto.

The Twins' Grandmother: Please | Sarah are better for business pur- path and sometimes little children give a list of pretty names for boys poses, as "Johnnie," "Willie" and played among them. and girls; we want something un- "Bobby" learn early in life.

In your quest for something "un- invitation that a young man offers see a child alone, sitting upon the usual," avoid names that are made you even though he may not be just pavement. Apparently he was most up by relatives or friends, and avoid the one you would choose. It is only intent. His hands were busy and his also peculiar spelling of old and courteous and fair. It may teach the sunny head bent close over his underfamiliar names. In every case the "right man" too, to be a little more taking. child's last name should be taken into prompt. I think you did right in that As soon as I approached he seemed consideration, for the given name and other affair but, my dear, are you not to realize my presence, though he was the surname should harmonize. a bit young to be thinking so seriously too busy to look up until I was quite Choose carefully before going outside of such things? the realm of such good old standbys Story-writer: The only way to dis- brown-eyed, and very winsome. as Margaret, Elizabeth, John and Ed- cover the value of a story is to send His hand grasped a piece of crayon, ward, which combine well with most it to the magazines. Type it care- and as his eyes critically surveyed

family names. A well-chosen name is an asset not to be overlooked, for either the sight pleasant or advantageous things, Use paper 8 inches by 10 and fold handicap, sometimes a veritable bur-

Girls' names not in general use, are suitable magazines. Don't be dis- exexcuted with the swinging stroke of Adelaide, Agnes, Alice, Barbara, Bea- couraged if your brain-child returns; a strong and skillful arm; beside it trice, Christine, Clara, Dorothea, just send it out again. Best of luck! executed with the swinging stroke of Eleanor, Emilie, Frances, Grace, Ger- Discouraged: My mother is old- the letter. He saw the difficult curve trude, Helen, Hilda, Ida, Isabel, Jean, fashioned and will not try any of the to the left, but he could not make it, Janet, Jessica, Julia, Laura, Lucy, new devices that make housekeeping so turned to me for help. Louise, Marion, Mariam, Olive, Paul- easier. We have just installed elec- "Shall I finish it?" I asked tne, Ruth, Sidney, Sylvia, Theodora, tricity and can afford lots of new With a sigh of relief he yielded the Ursula and Winifred. things. What can I do?

For a boy choose one of these Youth loves to experiment and ven- "Who made this one for you?" names: Alan, Alfred, Arthur, Bert- ture and I have the utmost sympathy "A man," he answered. Evidently ram, Charles, David, Douglas, Donald, with you, dear. On the other hand, he was acquiring his instruction as Edgar, Edwin, Francis, Geoffrey, Gor- Experience, which your mother repre- the opportunity permitted. don, Horace, Lawrence, Lewis, Mal- sents (this sounds like an allegorical "There!" he cried with satisfaction Robert, Stephen, Sylvester or Theo- is still ignorant, so I cannot well take "There it is!"

(sometimes the mother's maiden visits her mother on the old farm with difficult curves. name) can be used with good results. every summer. When they installed "Most three, I think," he said.

Everett Smith is a good example. electricity she wished her mother Later I learned from his proud litshould always be registered in its promise. In her own home she al- years old. correct form, not as "Lollie" for ways drained her dishes in a wire An unusual child? Yes, but with Laura, "Flossie" for Florence, and drainer, and though her mother did greater possibilities come graver re-"Willie" for William. School work not approve, she did it when she sponsibilities. and, later on, business letters and let- washed her mother's dishes. So one Parents sometimes fail to realize

Women and girls err in this respect work. My friend cheerfully kept her The ordinary interests of a threefar more than men, but they are part of the bargain and did not even year-old boy lead him to convert the realizing that while we may prefer ask her mother how she liked the dining room chairs into horses, or to be "Lou," "Mamie," or "Sadie" in vacuum cleaner, but it did not go the sofa into an automobile. He first the home circle, Louise, Mary and back to the dealer.

the north, near the Jordan river and spear. had been one of those to suffer most the Lord Gone Out Before Thee? De- that while his interest lasts. at the hands of the Canaanite enemy. borah's faith was simple, direct and The young child is tremendously dom and resource, and the people of Israel about Jehovah was child's experimental interest. strength, determination and lightn- this that He was a God of war, fight- The wise parent always avoids exing-like swiftness of the man, ing His people's enemies. "The Lord tremes with even the "most unusual" Esdraelon, was chosen as the rallying "the Lord of hosts, the God of the most urgent need for little folks. tribesmen of Zebulum and Naphtali, and mighty, the Lord mighty in bat- children, but never force them; let over whom he had already some in- tle." So even in Christian literature, them keep trying. fluence and authority. The chosen in the imagery of the Apocalypse, battleground is the banks of the river Christ is "portrayed as a warrior rid-Kishon, always treacherous in times ing on a white horse to the final conof flood but well known to the men of flict with Anti-Christ" (Rev. 19: 11-Israel. Deborah's instructions to 16).

Barak did not lack courage, but he visible leader who gave the victory. number of cases that well-arranged saw with a soldier's understanding There was a storm, a heavy fall of farms have brought a higher price on prise. If this woman of vision and of enemy was caught upon soft and is easy access to the fields from buildfaith, through whose lips Jehovah treacherous ground, amid marshes ings and highways. It takes an averspoke to him, would but go with him, and quicksands. It seemed that age of 53 work hours to produce an 4: 4-5. New Deborah. The first four then he felt assured of Jehovah's heaven and earth had conspired to acre of corn on rectangular fields, blessing and so of success. Deborah's overthrow and destroy the enemy. It containing 10 to 15 acres, while the duction provided by the editor of the answer was prompt and spirited, "I was surely the Lord's doing. book. They tell us of the evil-doing will surely go." But, she said, the The lesson story goes on to tell of the same area was 61 hours. Where of Israel and the oppression of Jabin, honor of the enterprise will go to a the flight of Sisera, and of his murder tractors and large herse-drawn im-

came up to her for judgment. Her were harnessed to it; or rather yoked, 67. Called Barak. Deborah had courage and faith in God. But she plates. Two or sometimes three men tions of the farm will help make the capable were assigned to each chariot, one of place more attractive.

The world's nut trees are said to be capable of supplying avarishment to its entire population.

KEEP TRYING

Do not the little effort under-rate. Do thou the same, it will the more

delight him And ever to renewed attempts invite

The way lay through a cheery part of the city, down a long hill. Grass plots and flower beds bordered the

The sunlight flashed an arrow of Ruth: You should accept the first gold down the incline, and I could

close to him. He was very small,

fully, numbering the pages; put your his drawing on the walk, he said, in-I name and address at the upper right- cluding me now within his glance;

hand corner of the first page and the "I've made another kind of an 'S'." or the sound of it makes a pleasing and enclose a self-addressed and questioning look in his eyes made me number of words at the left corner stamped envelope in case of rejection. inquire:

"What troubles you?"

clue as to the nature of the story, I uneasily. Before him was a wellcannot advise regarding the most drawn letter "S" about a foot high,

colm, Oliver, Paul, Philip, Richard, play!), knows much of which Youth when I made the required stroke.

sides. I will, however, tell you of an "How old are you?" I ventured, for In naming a boy, a family name experience of a friend of mine who he looked too little to be concerned

Nicknames and abbreviations have would buy some of the new housekeep- tle mother that he knew "nearly all their place in the family circle and ing devices but her mother, like yours, of his letters," and that he had learned among friends, but the child's name would not. So she arranged a com- the letter "S" soon after he was two

ters sent to strangers should be sign- morning she said: "Mother, I'll agree that the young child needs widely vared with the name in its correct form, to do the dishes your way if you will jed activity and constant direction to for a communication signed "Cad give this vacuum cleaner I have sent awaken and broaden his interest Flite" does not seem of so much im- out on approval just one trial." The rather than the over-stimulation portance as one signed Catherine floors all had heavy carpets and which induces him to "go far" with sweeping was hard, backbreaking some one kind of play.

takes an interest in things that move. man, a trained soldier and leader of whom was the driver, a second the imitating in his play the life about then in things that make a noise. By the northern tribesmen. Therefore, shield-bearer, and the third, the him, a child unconsciously develops she called Barak, whose home was in fighting man armed with bow and some understanding of it; then when the lake of Hulah, and who, no doubt, 14-16. This Is the Day . . Is Not est him, he turns to another to "play" one phase of activity ceases to inter-

"Deborah" means a "bee," and "Bar- very great. She was led to believe alert, vital, experimenting at life firstak," "a flash of lightning." This com- that this was the divinely appointed hand: LIVING! For most of them exbination of the bee and the lightning day, and like Moses and Joshua, she perience must be the great educationgave promise of a stinging blow believed that Jehovah went before the al factor. Froebel appreciated this against the oppressor. The busy armies of His people into the battle. fact and chose the windmill with its activity of the woman, her wis- For among the earliest ideas of the attractive motion as a symbol of the

made for victory. Mount Tabor, at is a man of war," they said. He is three-year-old; but has care for his the north-east end of the plain of "Captain of the Lord's host;" He is normal development, since that is the point. Barak was bidden to call the armies of Israel," "the Lord strong Encourage the experiments of

It Pays to Plan Your Work.

In present times of high production Barak are given as the word of The Lord Discomfited Sisera. The it pays to re-arrange their farms with battle was fought, no doubt with regard to economy and efficiency of 8-9. If Thou Wilt Go With Me. courage and skill, but it was the in- operation. It has been noted in a time required in irregular fields of in the tent of Heber, the Kenite, by plements are used, the advantages of whose home was in the northern part 10-11. At His Feet, that is, "after Jael, the wife of Heber, a murder the long and regular shaped fields are learn the lessor, of forgiveness to an it didn't matter if it took a few more

The homes of a nation are its

Economy is not always doing without things. It is making them do the best they can.

per begins. Above that pe Mississippi and the Obl. or the

mighty Amagon, with 2,722,000 the Nile and Congo have a watershed divided only by an ranean. Beyond the narrow 5,000 Years of Endeavo

This is the enemy that the quer. Water alone will not de down by the Nile from the li tians have been trying to call alluvial deposit and as yet he

partially succeeded. Herodotus mentions their el siderably obliterated the rapid

MUST INCREASE PRICE OF FI

Result of Action of Board and Lack of Ex Markets.

A desputch from Ottawa si

