

Legume Bacteria

The Department of Bacteriology of the O. A. C. Guelph, are preparing a bulletin giving the results for 1906 of co-operative experiments with cultures of the legume bacteria. In Canada the distribution of these cultures from the Agricultural College was begun in the spring of 1905, and the results were published by Prof. F. C. Harrison and B. Jarlov as Bulletin 148. These bacteria in the soil penetrate the roots of seedlings of the legumes, and in association with the plant, extract nitrogen from the air and store it up in the plant. By applying the bacteria to the seed, their presence in the soil is assured, and as soon as germination of the seed occurs, the bacteria penetrate the roots and early nitrogen assimilation begins. Cultures were again sent out during 1906, and the report will soon be published in bulletin form. During 1906 375 cultures were sent, of which 108 were to farmers in Nova Scotia, and from these reports were submitted to Principal Cumming, of the Nova Scotia Agricultural College. Of the remaining 257, reports were received at the Guelph College of 116, or a little over 45 per cent. of the total. Of the number of experiments reported, 108 reported a benefit to the crop from the use of the culture. Cultures for inoculating seed will again be sent out from the college during the coming spring. Last season a large percentage of recipients of cultures, through carelessness or indifference, failed to send a report of their experiment. Believing that farmers sufficiently interested to conduct an experiment, carefully will be willing to pay the cost of the culture, a price of twenty-five cents for each bottle of culture, an amount barely sufficient to cover the cost of materials and postage, has been affixed. When a leguminous crop is thriving, it indicates either that the soil is plentifully inoculated with the bacteria necessary to produce nodules on that particular species, or else that the soil already contains an abundant supply of nitrogen to support plant growth. In either case, the use of artificial cultures would be of little benefit. On the other hand, if the crop fails to do well, and on examination no nodules are found on the roots, the culture would probably be of benefit. Failure to thrive may be due to other causes than lack of nitrogen. The soil may lack available potash, phosphoric acid, or lime. Inoculation does not and cannot replace these. When it is intended to sow seed of a legume which never has been grown upon the soil, inoculation of the seed should prove beneficial. This is true even if other legumes have been grown upon the soil, as the bacteria forming root nodules on one species do not necessarily form nodules on the roots of other species. If soil once becomes thoroughly inoculated as indicated by a successful leguminous crop and the presence of numerous nodules, the use of artificial inoculation with later seedlings is considered unnecessary if a three year or five year rotation is followed. The use of cultures will in no way compensate for carelessness in selection of seed, preparation of the soil or subsequent care of the crop. Application for Nodule-forming Bacteria—Desire to conduct an experiment with nodule-forming bacteria for: Red clover, Alfalfa or Lucerne, Alsike clover, vetches, peas, beans, field beans, sweet peas, winter peas. (Strike out those not wanted). Pounds, or bushels, of seed to be inoculated. (Each bottle is sufficient for 60 lbs. of seed). Probable date of seeding. If the culture is sent to me, I will (1) carry on the experiment according to the instructions received; (2) exercise care and accuracy in the work; (3) report the results of the experiment soon after harvest, whether successful or not. Name. Post-office. Express Office. County. Province. Enclosed find cents to pay for culture. This application should be mailed to: Bacteriological Laboratory, Agricultural College, Guelph, Canada. In order that cultures may be prepared and sent promptly at the time they are desired for use, it is important that applications should be sent in as early as possible.

BETTER THAN SPANKING.

Spanking does not cure children of bed-wetting. There is a constitutional cause for this trouble. Mrs. M. Summers, Box W. 8, Windsor, Ont., will send free to any mother her successful home treatment, with full instructions. Send no money but write her today if your children trouble you in this way. Don't blame the child, the chances are it can't help it. This treatment stops carelessly and aged people troubled with urinary troubles by day or night. Suggestion for Aching Feet. When the frost is leaving the ground it has a peculiar effect upon the muscles of the extremities and you fully realize that you have feet. The sunshine lures you to walk out and enjoy its brightness, but your feet almost refuse to carry you and you feel much distressed and think you have acquired rheumatism or muscular difficulty. True, those who have rheumatic tendencies are affected by this dampness more keenly than those not so afflicted. The wearing of heavy-soled shoes would help considerably in keeping away these aches and stockings slightly thicker than a cobweb would be advisable. As to low shoes I have nothing to say since I have a personal knowledge of their being worn at a woman for the past eight years, and she declares that if the soles are thick it is not necessary to have a top, that the skirt is sufficient protection. She considers herself well shod and has never suffered in any way. Be this as it may the feet should be protected in all weather, no matter what fashion otherwise decrees. Changing the shoes frequently is soothing to the feet and good economy where the shoes are concerned as it keeps them in good condition if, when taken off, they are put on shoe trees. It will retain their shape and also prolong their life. There are several good remedies for tired, aching feet, among them you may find one to your liking and agreeing with your case. For feet that swell from

hours of constant standing here is a powder, if a generous tablespoonful be added to a foot bath, much relief will be found: Alum, one ounce; rock salt, two ounces. After the bath apply this powder. Lycopodium, three drachms; alum, one drachm; tannin, thirty grains. This will also correct a tendency to profuse perspiration. A most excellent remedy for pains in the soles or ankles after a long tramp is a warm bath into which put a few drops of carboxylic acid. It will give you such relief that in an hour you will feel equal to taking another tramp. Here is one worth, when the feet are tired and ache and you cannot tell just where or how, but are, oh, so tired. Take a lemon, cut it in half and rub the soles and all over the instep. I feel sure you will be glad to know of this and agree with me that it gives much ease and comfort. Minard's Liniment for sale everywhere.

Horses Defined. F. A. Whitney, of Meeteetse, Wyo., a rich rancher, during a recent visit to New York told a story about a little slum urchin whom he had sent on a month's vacation into the country. "The lad," he said, "thought we got mush from the mushroom and milked the milkweed. One morning a lady pointed to a horse in a field and said: 'Look at the horse, Jimmy.' 'That's a cow,' the boy contradicted. 'No,' said the lady, 'it's a horse.' 'Tain't. It's a cow,' said the boy. 'Horses has wagons to them.'"

Slump in Shares. (Philadelphia Record.) According to stock market measurement there has been a shrinkage of \$1,938,420.00 in the value of railway and industrial shares in the last six months. Notwithstanding this depressing process, there appears to be no serious slackening in the volume of current or projected legitimate business.

\$10—Atlantic City Easter Excursion \$10—Via Lehigh Valley R. R. From Suspension Bridge, Friday, March 20. Tickets good 15 days. Tickets allow stopover at Philadelphia. For tickets, Pullman and further particulars call on or address Robt. S. Lewis, Passenger Agent, 54 King Street East, Toronto.

FOOLED HERSELF. "A New York woman," said Henry Clews at a recent dinner, "saw in a shop window on Fifth Avenue a collar of pearls that she liked. She stopped her carriage and sought out the shopkeeper. 'What is the price,' she said, 'of that pearl collar in your window?' 'Six thousand dollars, ma'am,' said the shopkeeper, and he drew forth the collar and displayed its beauties to the dazzled woman. 'She took out her cheque book. 'I'll tell you what I'll do,' she said. 'I'll give you my cheque for \$3,000, and I'll send my husband here to see the collar this afternoon. Don't tell him it is \$6,000; tell him it is \$3,000. Then, maybe, he will buy it for me.' 'The jeweler smiled and bowed. He had seen this sort of game played many a time before. 'I wish you luck, madam,' he said, and the lady departed. 'Her husband found in his office in mood unusually tractable. He had sold certain stocks at a grand profit that morning. He consented readily, therefore, to go and look at the necklace. 'That evening his wife dressed for dinner with unusual care. She wore her most beautiful gown. She dreamed, as she dressed, of an affectionate husband clasping about her white throat a collar of pearls. 'And I bought that pearl collar,' were the man's first words when he got home. 'You dear!' she exclaimed. 'Let me see it.' 'Can't,' said he. 'I had it sent to my mother's. You know it is her birthday to-morrow.'"

ENGLISH SPAVIN LINIMENT Removes all hard, soft or calloused lumps and blemishes from horses, blood spavin, curbs, splints, ringbone, swellings, stifles, sprains, sores and swellings, throat, coughs, etc. Saves \$50 by use of one bottle. War-rated the most wonderful Blemish Cure ever known. Sold by druggists. Dethroning Womankind. (Boston Herald.) According to the president of the American Women's suffrage association America has made the least progress in the cause of the present movement. Even at the foot of Mount Ararat the women of Syria are awakening to the need of the ballot. They now desire to vote. For Mount Ararat going over to the suffragette! How the shades of Noah and his descendants must stagger at the idea of woman voting! man's proud prerogative! And will they ask: What is this ballot? What is universal suffrage? The word is based on the Greek, and shall all be as alike as peas in the pod in the course of time and desperately uninteresting. Still, in an advanced woman, she has been on a pedestal too long. Take her down and let her do like the rest of us.

Train the Girl. To be self-reliant. To handle money and keep accounts. To value independence without losing loveliness. To take care of herself without losing faith in her fellows. To understand social conventions and use them for her own protection. Never to let friendship infringe upon self-respect. Never to sign papers without knowing what they are about. Not to cling with her eyes shut. Always to stand erect and look things squarely in the face. Minard's Liniment Cures Burns, etc. Dull Times for the Editor. Oh, for a sensational piece of news of some description; the arrival in town of a train loaded of coal for instance. We're deperated for news.—Tullurid, Col. Journal. An Odeiferous Occupation. (Hillsboro, Ore. Argus.) Talk about skunks—Pearl Oils dug nine out of one tree north of town the other day. The skunk skins sell fairly well these days, but it takes some time to deodorize Oils after he was through with his task. English Women the Tallest. According to recent measurements taken in France, England and the United States the English woman is the tallest, the American woman weighs the most, the average height of women, and the French women are the smallest.

Deed of a Gallant Mobody.

It is not always the information carried by the recognized aides-de-camp to and from the commanding officer in battle which is of the highest value. There was a supreme moment during the battle of Waterloo when the Duke of Wellington was left absolutely alone—and that not when he was running the risk of capture by sailing through the enemy's lines. It simply meant that every gallinger had gone his way, each with his message. At this moment a stranger rode up to the Duke and quietly asked: "Can I be of any use, sir?" The Duke took one glance at him, and unhesitatingly answered: "Yes, take this pencil note to the commanding officer," pointing to a regiment in the heat of the battle. The stranger took the note and galloped away with it, through the thick of the fight. He delivered it, but what happened to him no man knows. The Duke always declared that to be one of the most gallant deeds that had ever come under his notice. It was done without prospect of acknowledgment or reward, and neither attended its successful accomplishment.—Evening Standard.

Minard's Liniment Co., Limited: Gentlemen,—My daughter, 13 years old, was thrown from a sleigh and injured her elbow so badly it remained stiff and very painful for three years. Four bottles of MINARD'S LINIMENT completely cured her, and she has not been troubled for two years. Yours truly, J. B. LIVESQUE. St. Joseph P. O., 18th Aug., 1901.

Bob Sleighs as Gun Carriages. A test which may prove of very great importance to the militia of Canada is now going on in Ottawa. It is to prove whether or not in time of war the ordinary bob sleighs which practically every farmer possesses could be used for carrying the ordinary twelve-pound gun in winter. A set of the regular sloop sleighs which are used by the farmers has been built and the gun and seats fixed on the hind sleighs, with the limit fit will be inspected by Major General Lake, after which it will be forwarded to Kingston, to be tested by the permanent force there.

When a Horse Gets Hurt USE Fellows' Leaming's Essence But don't wait until an animal is injured. GET IT NOW—and you have the remedy that CURES all lameness in horses. If your dealer does not handle it, send 50c. to National Drug & Chemical Co., Limited, MONTREAL.

Getting the First Thousand. (Denver Republican.) "Get the first \$1,000. After that money making is easy." This is the old-time saying of the hard-headed self-made man. That axiom has set many men to saving. They fixed upon that sum as the glittering far-off goal of a fortune some time to be made. To a man on a small salary—a salary, say, out of which something can be saved weekly without too much deprivation—the advice is good. There is something in it that acts as a stimulus to economy. And who will deny that economy is a good thing or that any truth that lights the way to it should not be known? Many men, therefore, have been buoyed up in their economies by the belief that the first \$1,000 is the hardest to get and that afterward all the rest would be easy and the good things of the world that follow a bounteous supply of money would be within easy reach.

Stops Colic —and all stomach and bowel disorders. Makes prying babies plump and rosy. Proved by 50 years' successful use. Ask your druggist for it. Nurses' and Mothers' Treasure —25c.—60c. bottles \$1.25. National Drug & Chemical Co., Limited Montreal.

Dangerous Doctrine in Court. (Richmond, Va. Dispatch.) The doctrine which is being preached and promulgated in some of the courts that a man who loses his temper becomes temporarily insane and is not responsible in law for his acts is doctrine that is about as mischievous and dangerous as could well be imagined. It is doctrine that destroys all incentive to self-control and rather encourages men to give way to passion, to brutal appetite and to every animal desire. Minard's Liniment Relieves Neuralgia. Edible Emolument. (London Traveler.) First actor—Hello, old man! Got an engagement? Second actor—Yes, old chap. First actor—Any salary attached. Second actor—No, but there's a real pudding in the second act. The average man can't very well afford to tip the servants and give his wife an allowance, too.

ELITE DRESSMAKING SCHOOL Teaches Dress Cutting and Making in all its Branches by mail (8 lessons). The best system ever introduced in Canada. Adopt this method and increase your income. For full particulars write to-day. ELITE DRESSMAKING SCHOOL P. O. BOX 91 DUNDAS, ONT.

OLD RIDDLES OF THE SEXES. In a new play on a very old pattern the fair heroine falls in love with a hunchback jester. This revises the old but perennially interesting question—what are the qualities in a man most attractive to the opposite sex? The best and noblest of women fall in love as a rule through the imagination rather than the senses, and are more susceptible to what they believe to be there than to what they see. Thus, a golden voice is more alluring than a handsome appearance, while a physical infirmity may raise the feeling of maternal tenderness, which is one of the greatest of feminine charms. Perhaps the most irresistible conqueror is the silent hero, the man of deeds, not words, whom one can endow with so many secret virtues.

ITCHING PILES —Eczema, Eruptions, Pimples—are surely cured—the most intense suffering at once relieved—by Mira TRADE MARK REGISTERED. Content—the sale and speedy remedy. Write your name and address on separate paper, and send it to Mira, 100 St. James Street, Montreal. I will send you a sample of Mira free of charge. I recommend it to you from all that I know of it. I have used it 50c. each box—6 for \$2.50. Used with Mira Blood Tonic and Tablets means a quicker cure. At drug stores—or from The Chemists' Co. of Canada, Limited, Hamilton—Toronto.

Legislation to Preserve Forests. The Appalachian and White mountain forest reserve projects belong to that great class of measures which everyone knows to be deserving but which stand only a poor chance of early adoption. The arguments in favor of the forest reserves are of general application. Government control of such tracts prevents reckless lumbering, secures a timber supply for the future, safeguards the watersheds from freshets, increases the value of water powers, protects against forest fires and is in every way a wise and far-sighted policy. Why, then, restrict its benefits to one section of the country?—New York Evening Post.

Italians Coming to Mississippi. A colonization scheme that will be watched with interest throughout the south Atlantic and gulf sections has been undertaken at Brookhaven, Miss. Fifty families from the Kingdom of Italy will be settled on a tract of land that will allow ten to fifteen acres to the family, where they will take up the cultivation of vegetables and fruits. The success of the Italians at Brookhaven, which is confidently expected, would mean their writing home to others for industrious agriculturists. Their taking up of only small farms, too, will afford an object lesson in the value of intensive as compared with extensive farming. Savannah, Ga., News.

ITCH Mange, Pruric Scratches and every form of contagious Itch on human or animals cured in 30 minutes by the new Eucalypti Lotion. It never fails. Sold by druggists. MAKING FARCE OF WEDDING. Senseless and Cruel Customs Better Honored in the Breach. A wedding episode in which the bride rode to the railway station in a street car rather than make the trip in a carriage ornamented with fluttering white ribbons and pastebord hearts furnishing interesting reading for the Washington public recently, there is a more or less serious side to such incidents, which is often overlooked, owing to the fact that the serio-comic vein is likely to be a jolly good fellow who in the weary abandonment of his frolicsome animal nature forces his slapstick personality into the drama in the best of friendly good spirits. And surely the jolly good fellow is all right where he belongs. But when he presumes to make a burlesque of sacred ceremonies and terrorizes blushing brides and pallid bridegrooms, he becomes, to use a feminine expression, appropriate to the subject, a mean, horrid old thing. In the home circle or among the close friends of the "happy pair" a little innocent wagging may not appear unbearably out of place. But wagging as soon as it approaches horse play is objectionable as a feature of wedding festivities. The marriage rite is as holy and as unimpressive and as beautiful as any association with what is known as our Christian civilization, and the jolly good fellow who interferes with its proper observance is at once changed into a jolly bad yahoo. The cruelty of the thing is also worth considering. All the feminine love of ceremonial display and careful attention to artistic details is awakened in a bride, and of all things in the heavens above or on the earth beneath there is nothing she would rather have perfect than altogether absent than her marriage day, even to the most trifling circumstance connected with it. But along comes the jolly good fellow and makes it a source of torment.

On the Tobaccoist.

P. T. Powers, the president of the National Association of Baseball Leagues, was talking about the business management of baseball. "Baseball," he said, "must be managed liberally. There must be no niggardliness. Otherwise a deadening unpopularity and a great kick ensue. "He who tries to conduct the baseball business on pawnshop lines gets hourly such reproofs as fell to a tobaccoist the other day. "A newsboy walked into the tobaccoist's shop and asked for a light for his cigarette. "We sell lights here, sonny," said the tobaccoist. "The boy took out a cent. "All right, boss," he said. "Let's have a box of matches, then." "He paid for the matches, extracted one, lighted his cigarette, and closing the box, handed it back to the tobaccoist. "Put this on the shelf," he said, "and the next gent what asks for a light, give him one on me."

Dear Mother Your little ones are a constant care in Fall and Winter weather. They will catch cold. Do you know about Shiloh's Consumption Cure, the Lung Tonic, and what it has done for so many? It is said to be the only reliable remedy for all diseases of the air passages in children. It is absolutely harmless and pleasant to take. It is guaranteed to cure or your money is returned. The price is 25c. per bottle, and all dealers in medicine sell 34 SHILOH This remedy should be in every household. Curious Shrove Tuesday Custom. (Springfield, Mass. Republican.) England has no lack of curious survivals. In Atherton, Warwickshire, from time immemorial, a game of football has been played in the town streets on Shrove Tuesday, and the shops are closed while it is in progress. It is an odder custom at Westminster school, where the boys "toot the panpipe" in the presence of their relatives, the teachers and a gathering of "old boys." The ceremony is curious and stately. When all is ready the school cook marches into the great hall, bearing the panpipe in a pan and preceded by the dean's vergor, who carries a mace. Then the cook throws the cake over one of the beams and the boys rush to get the biggest piece, at the recent ceremony one zealous contestant falling bodily on the panpipe as if it had been a football. Before it is quite reduced to atoms the headmaster calls time and the boy with the biggest scrap in his possession wins a guinea.

Saves A Lot of Bother The starch that needn't be cooked, that won't stick, that gives a brilliant gloss with almost no ironing.—Isn't that the starch you ought to have them use on your clothes? Buy it by name. your dealer sells it. How Some Bills Are Born. "Write me a bill to amend something. I haven't introduced a bill this term." This request for assistance is said to have been made by a New Hampshire legislator to a friend recently. Poor man. He didn't know of any needful legislation, but he felt he must introduce a bill to square himself with his constituents. It is the feeling that a man must go back home from the legislature with a record that give birth to fool bills, which clutter and clog the legislative machinery and run up the expense of each session.—Vermont Phoenix.

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ASK YOUR DEALER FOR Duchess and Priscilla Fine Hosiery For Ladies Rock Rib and Hercules School Hose Strong as Gibraltar Limit of Strength Princess Egyptian Lace For Children's Fine Dress Little Darling and Little Pet For Infants Lamb's Wool and Silk Ties All Wool Fine Hosiery Manufactured for the Wholesale Trade by the CHIPMAN-HOLTON KNITTING CO., LIMITED, HAMILTON, ONTARIO.

EDDY'S ESTABLISHED A.D. 1851. MATCHES PARLOR SULPHUR WAX Ask for EDDY'S SAFETY MATCHES FOR HOTELS, WAREHOUSES, HOSPITALS, ASYLUMS, ETC.

"PAGE FENCES" WEAR BEST Made of High Carbon Wire—we'll prove it to you. COILED not crimped. This makes it still stronger in service. It stays taut. Painted—WHITE or heavy black. THE PAGE WIRE FENCE COMPANY, LIMITED, Walkerton, Toronto, Montreal, St. John, Winnipeg.

ISSUE NO. 13, 1907.

HELP WANTED—FEMALE. WANTED, A GOOD GENERAL SERVANT. Must be neat and industrious. \$15. Apply to Mrs. Powis, corner Aberdeen Avenue and Hess Street, Hamilton, Ont. MISCELLANEOUS. DR. LEBOY'S FEMALE PILLS. Ask your dealer and send monthly report. These Pills have been used in France for over 30 years. Send for free circular for the purpose of diagnosis, and see guarantee. Price \$1.00 per box of 10 pills. Sold by mail, money order, or cheque. LEBOY FILL CO. Box 24, Hamilton, Ontario.

Popcorn for Seasickness. It is not generally known that popcorn is one of the best remedies for nausea caused by seasickness or carsickness. In one case known to the writer a lady starting on an overland journey of several days' duration was, before many hours had passed, attacked by the usual symptoms. She decided to try the new remedy, whatever it might be, that she had been assured she would find in a good-sized tin box that had been given her at her departure. Although rather incredulous, the traveller tried the popcorn she found in the box, and, to her gratification, the nausea gradually disappeared. She ate freely of the corn every day whenever there was the slightest indication of nausea, and, thanks to this simple precaution, the journey was accomplished with an unvented degree of comfort.—Harper's Bazaar.

YOUR SUMMER OUTING If you are fond of fishing, canoeing, camping or the study of wild animals look up the Algonquin National Park for your summer outing. A fish and game preserve of 2,000,000 acres interspersed with 1,200 lakes and rivers in awaiting you, offering all the attractions that Nature can bestow. Magnificent canoe trips. Altitude 2,000 feet above sea level. Pure and exhilarating atmosphere. Just the place for a young man to put in his summer holidays. An interesting and profitably illustrated descriptive booklet is available. Write for it. Send five cents on application to J. D. McDonald, Union Station, Toronto, Ont.

Woman's Work. Here's the turmoil of the strife, Here's the heaving and the care; This, and this alone, the true Wedlock, that makes one of two. Since thou turnest from the life Of the world to be my wife, Boldly cast thy lot with me, This the work appointed thee: Mind the stir and stress of fight, Battle in the burning sun; Watching in the winter night; But for thee, when all is done, To my parching lips to hold Love's full wine-cup, and to fold 'Neath the breastplate's iron struts The soft robe of tenderness. Surely that work is not light! —From Ibsen's Brand.

Minard's Liniment Cures Dandruff. Money in Bogus Pennies. (New York World.) Strangely enough, the most profitable course to counterfeit are pennies, because for an expenditure of 18 cents 100 of them can be made, which leaves a profit of 82 cents on the dollar. The chief difficulty is in getting them into circulation. It also takes expert workmanship to make these pennies, because they must be made with a die. The best counterfeiters pay most of their attention to the making of quarters, half dollars and dollars. With silver at 90 cents an ounce, a counterfeiters can make five quarters for every ounce, quarters that ring true and have every appearance of the real thing.

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