

MODERN AGRICULTURE, CHEMISTRY IS THE TRUE BASIS OF SUCCESSFUL FARMING.

And Being Such, Every Public School in the Rural Districts Should Teach it, and Not Only Theoretically But Practically.

Agriculture may be considered at once the oldest of all arts and the youngest of the sciences. It has always had for its object the economic production of plants and animals and the materials elaborated by them during their life.

Until comparatively late years agriculture existed, as far as the farmer was concerned, as an art only. The application of scientific or classified knowledge to the feeding of plants and animals began with the researches of Liebig and Davy in the early part of the present century.

It is to chemistry and animal and vegetable physiology that we look for the answers of innumerable questions that are continually arising in the development of those living things which the farmer has to deal with.

Chemistry has to do with the composition of all matter, inert and living, and the changes which such is constantly undergoing. The conversion of soil substances and the constituents of the air into vegetable tissues and the formation from these of animal tissues and products, though not as yet fully understood, are, nevertheless, truly chemical changes.

Physiology treats of the functions of living things and their various organs; it seeks to explain with the aid of chemistry all the phenomena of life. Living matter is made up of cells capable of nutrition and reproduction.

Thus we establish the claim that chemistry forms the basis of scientific agriculture. Leaving with this brief outline of the fundamental importance of chemistry in the abstract to agriculture, let us proceed to examine somewhat more in detail the aid that this science gives to the farmer.

In the by-paths of agriculture, too, chemistry is of service. The intelligent investigator in the important subjects of insecticides and fungicides must prosecute his studies by the light of chemistry.

It is in this short sketch our claim is made good, then we perceive that it is of paramount importance that agricultural chemistry should form part of the education of every boy destined for the farm.

Keeping Cattle on Small Areas. In the spring of the year it was arranged that about forty acres of land should be set apart for the particular object of growing feed for cattle, in order to ascertain and illustrate how many cattle could be fed for the whole year upon the product of that area.

appears to me that the numbers of cattle might be doubled, with increasing profit to the farmers, and decided gain to the fertility of the fields. A further extension and improvement in mixed farming, which will cause more cattle to be fed on fewer acres, is capable of great service to the whole agricultural interest of the Dominion.

WHEN EDISON WAS YOUNG.

Another Entertaining Story of the "Wizard's" Skill With the Key. "I was an operator in the Memphis office when Thomas A. Edison applied to the feller a member of the Reminiscence Club that was in session at the Lindell.

"At this end of the line was an operator who was chain lightning and knew it. Edison had hardly got seated before St. Louis called. The new-comer responded and St. Louis started in on a long report, and he pumped his leg over the arm of his chair, leaning three or four feet over the desk.

Chemistry affords definite knowledge as to the amounts of the several constituents taken from the soil by field-crops, thus indicating what must be restored if fertility is to be maintained and lucrative yields obtained in the future.

Courtship in Arabia. An Arab loves as none but an Arab can love, but he is also, mightily excitable and easily won. An Arab sees a girl bearing water and brushwood, and in a moment, almost at a glance, is as madly in love as if he had passed years of courtship.

The French Press. It appears from some statistics just published that the number of newspapers published in France is, or rather was on the last day of last year, 3,002 of which 2,002 were issued in Paris.

Columbian Puns. Some years ago, in Paris, they were discussing the discoveries of Columbus in the Louvre of the late Lord Lytton. Columbus, and a comrade, is the French for Columbus. "It is very singular," said one of the Parisians possess 2,002 newspapers, the Londoners have only 563.

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SOME NEW IDEAS.



"Dear me, how shocking, Mr. Brown! I thought you had signed the pledge, too!" "Yes, so I did, old boy; but I wash tight—can't be sponserable—(hie)—when tight, you know."

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SCIENTIFIC DROPS.

A new ankle boot for horses is composed of a piece of rubber with a layer of fibrous stiffening imbedded in it, having a tubular portion to fit on the hoof, and a globular portion to inclose the joint.

A recent invention is a sandpapering roll in which the paper is coiled in a continuous strip about a central axis, the whole arrangement being inclosed in a cover with a slit through which a strip may be drawn.

A note on a chemical method of fixing the age of fossil remains has been presented to the Paris Academy of Science by M. Adolphe Carnot. The determination is based on the progressive diminution of fluorine contained in fossil bones of various geological ages.

The utilization of waste tin scrap has been the subject of much investigation by chemists. The scrap is treated by various processes for the production of stannate of soda, which is a useful mordant, or by heating and heating the tin is converted into oxide, which is used in certain glazes for pottery.

The number of volcano vents still existing was fixed by Humboldt at 407, of which 225 have been active within the last century. It has since, however, been estimated that the Indian Archipelago alone contains more than 900.

The researches of many observers, as reported upon by Dr. Buchan, show that the ocean currents cause the temperature of the west side of the Atlantic, at depths of from 100 to 500 fathoms, to be nearly ten degrees warmer than at the same depths on the east side.

The Indignant Mother—You say the young scamp took you in his arms! What did you say to him? The Artless Daughter—I said, "Hold on!"

Stalate—Jumble is a very clever imitator; in fact, he can take anybody off. Miss Spicer—I would so enjoy having him come in while you are here.

"I hear Bingley is trying to make an artist of his son; has he done any work yet?" Speakquick Oh, yes, he draws on his father regularly.

"Cholly Chiplins is getting interwolverly pwoond and stuck up." "Ah, weally? What's the occasion?" "His doctah told him he showed signs of brain-fag."

For months she just doted on ivy cream, and nothing so much rejoiced her. But you find now her fondest dream is centered round the oyster.

R. Gedone—I hear that Jeweler Gilt has disappeared and that his liabilities are heavy. Brad Streete—So are his assets—he didn't leave anything but two safes.

NEWSPAPER LAW.

The following condensation is based upon decisions rendered at various times by Division Court Judges:— 1. Subscribers who do not give definite notice to the contrary are considered as wishing to continue their subscription.

2. If subscribers order a paper to be discontinued, the publisher may continue to send it until all arrears of subscriptions are paid.

3. If subscribers neglect to take periodicals from the post office, they are likewise responsible till all arrears for subscriptions are settled.

4. If subscribers move to other places without informing the publisher, and the papers are sent to the old address, they are held liable.

5. The courts have decided that refusing to take periodicals from the post office, or removing to another town and leaving them uncalled for, prima facie evidence of intentional fraud.

6. If subscribers pay in advance they are bound to give notice at the end of their time if they do not wish to continue taking the paper, otherwise the publisher may send until such time as a definite order to discontinue, accompanied by payment of all arrears, is sent him.

7. The man who allows his subscription to run for some time unpaid and then orders the paper discontinued or asks the post-master to mark it "Refused" leaves himself liable to punishment.

Physicians. DR. DEGRASSI, PHYSICIAN SURGEON, ETC., ETC., Wellington-St. W. L. HERRIMAN, M. D. M. C. P. & S. K. C. Office and residence, Cambridge St. Lindsay, opposite Baptist Church.

DR. B. E. MCKENZIE, B.A., Lecturer on Orthopedic Surgery in the women's Medical College, and in Toronto University; Consulting Orthopedic Surgeon to Victoria Hospital for sick children, Toronto. Diseases of the Joints and Deformities only. Consultation 10 to 3. Floor St. W. (Near Yonge St.) Toronto. 8-ly.

Professional Cards. JOHN A. BARRON, Q. C. (Solicitor for Dominion Bank.) Lindsay. Office, William St., in new Dominion Bank building.

ALLANS. MACDONNELL, BARRISTER, Solicitor, Notary, &c. Office, over Kennedy's store, Kent St., Lindsay. Money to loan.

MCWEYNE & ANDERSON, BARRISTERS, SOLICITORS, etc. Offices, immediately opposite the Daily House, Kent street, LINDSAY. JOHN MCWEYNE DONALD R. ANDERSON

Oh, What a Cough!

Will you heed the warning. The signal perhaps of the sure approach of the more terrible disease Consumption, if you do not heed the warning, you are courting ruin. You know from experience that Shiloh's Cure will cure your cough, never fails.

But Tom was 25 and Mrs. Cram had attended the school, and afterwards the same classes in Edinburgh. The law also extends to the civil, against joining your mother's friend and...

Will leave Cobourg at 8 A.M., and return at 9.45 A.M., on arrival of G.T. Trains from N.A., East and West.

RETURNING—Leaves Charlotte 11.15 P.M., except Tuesday at 9.45 P.M. and Saturday at 4.25 P.M. CONNECTIONS on New York Central and all other lines. CALLS at Brighton and Colborne, Wednesday and Friday at 4.00 A.M. Saturday Evening from Rochester.

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C. H. NICHOLSON, Gen. Pass. and Fgt. Agt., C. F. GILDERSLEEVE, Port Harb. General Manager, KINGSTON. F. C. TAYLOR, Agent, Lindsay.

HIGH-CLASS POULTRY. Many mistakes were made by the owners of the agent's stock, and the result was a loss of money. The quiet dignity of the man began to praise her handsome Melbourne trouble came to a private place which was used for a farm to buy or rent. Why, do people not mind the business?

Parties Wanted. THOROUGH-BRED POULTRY. HAD BETTER APPLY TO D. C. TREW, LINDSAY.

Orders filled as received. His stock are all prize birds, as follows: HOUDANS, WHITE LEGHORNS, PLYMOUTH ROCKS. D. C. TREW

MR. RICHARD HUMPHREY. Having removed to the South End of Skitch's Row WILLIAM ST. LINDSAY, will receive pupils there for PIANO ORGAN, VIOLIN, ETC., or will visit pupils at their homes. Would invite the public to see STOCK of MUSIC, both Classic and Modern which he has for sale, and will furnish both MUSIC and INSTRUMENTS at reasonable rates. Pianos tuned.

DR. HERLIHEY. The subscriber is prepared to dress all kinds of Mill-Picks, and to do all other jobbing in connection with Blacksmithing. REPAIRING. Buggies, Waggon and setting tyres a specialty. Repairs to Blacksmiths, Bel lows and Plates. All work warranted. Portable or stationary forges supplied. Wm. HERLIHEY. June 1, 1892. William St. Lindsay

I LOVED MY OLD WIFE. There was a dead silent... Mr. Bowser as he kicked off his... "You may talk as if you were no home." "I am glad you like to spend your evenings at home," she replied. "Yes, this is nice!" musingly... "I think so, too, and I know it would be better for both."