

FARM AND GARDEN.

NOTES ON MANURING.—Some farmers sow concentrated fertilizers on part of their ground and apply stable manure to the remainder. This is often a mistake. Experiments by Prof. Brown at the Model Farm show greater results from superphosphates and yard manure mixed than were the same quantities of each are used separately.

Stable manure is often spoken of as the standard fertilizer and a complete manure in itself. It is so probably for corn, but for wheat and other small grains phosphate of lime is usually needed, and on sandy soils potash. This is shown by the fact that the manure alone creates a heavy growth of straw, without proportionate increase in grain.

All manures deposited by nature are left on or near the surface. The whole tendency of manure is to go down into the soil rather than to rise from it. There is probably very little if any loss of nitrogen from evaporation of manure, unless it is put in piles so as to ferment. Rains and dews return to the soil as much ammonia in a year as is carried off in the atmosphere.

The acids in muck have a strong avidity for ammonia and readily seize upon it. One ton of air dry muck contains five pounds of available ammonia. But in its acid form it is rather injurious to crops, and needs to have its acidity neutralized by lime or potash so as to form a salt to be very helpful.

So soon as the manure is entirely cleaned out of the barnyard the bottom should be covered with straw or other refuse material, to absorb the liquid excrement that would otherwise be wasted. Muck, where it can be secured without carrying too far is excellent for this purpose. But it must be remembered that the last loads in the barnyard are much more valuable than the first.

The manure from horses fed on grain heats more rapidly, and is more effective every way than that made from hay and straw. If the pig pen is near the horse stable the pigs will do good service in rooting over the horse manure. Feeding whole grain to horses is under such circumstances no loss, as what is voided in the droppings is gathered by the swine. The rooting over and mixing with the solid and liquid excrement of the pig greatly increases the value of horse manure.

NEW INSTRUMENT FOR ADMINISTERING MEDICINE TO HORSES.—An instrument for administering medicine to horses and other animals, just patented in England, is thus described by the *British Live Stock Journal*.

It consists of a drenching funnel, having an opening at its top about two inches in diameter, connected at its base to a bent tube with a hole in the centre. Affixed to this tube is an iron hoop screwed on the side of the funnel with a ring on the top, into which is fastened by a buckle and strap a long piece of rope. There are also attached to the tube two pieces of flat iron and a long leather strap. The phlegm is administered to the animal by inserting the hollow tube into its mouth with the hole towards the throat. The long strap is passed over the horse's head, and then the rope passed through a ring fixed in the ceiling of the stable. The mouth of the animal is then raised above the level of its throat and the phlegm poured into the tube, when it finds its way into the throat through the hole in the tube, without pain.

VENTILATE THE HAY MOW.—Ventilation above a clover mow says a writer, is as necessary as it is above a sugar or fruit evaporator. If there is no open space and draught sufficient to carry away the moisture it is returned to the mow and mold is the inevitable result. No ordinary amount of drying will prevent hay from becoming musty if ventilation is shut off during the sweating process.

Horses have been successfully cured of the vice of biting by putting a piece of hard wood an inch and a half square in the animal's mouth about the same length as an ordinary snaffle bit. It may be fastened by a thong of leather passed through two holes in the ends of the wood and secured to the bridle. It must be used in addition to the bit. Rarely

adopted this plan with the zebra at the Zoo, which was a terrible brute at biting. Mr. Rarey succeeded, however, in taming and training him to harness, and drove him through the streets of London. Animals with this vice should be treated kindly in the stable and not abused with pitchfork handles, whips, beat, etc., and a kind pat, but firm, watchful hand and eye, with the use of the above wooden bit, will cure the most inveterate biter. The fact that he cannot shut his mouth or grip anything soon dawns upon him and then he is conquered.

MILKING.—Milking in the barnyard, says an exchange, is an old fashion that should be abandoned. It is inconvenient and unclean. It should go with the wooden pail and the hairy butter, and never be heard of any more, gone and forgotten too. It is a wonder that any farmer would permit it, and still more a wonder that any farmer's wives or daughters would consent to it.

TO RAISE PLANTS.—A lady, whose beautiful plants are the delight of her life and the envy of all her acquaintances, revealed the secret of her success for the benefit of the readers of the *Evening Post* the other day. The soil, she says, about two-thirds good garden soil, and the rest is sand. It is kept light and loose about the roots; they are watered as they appear to need it, and not according to any particular rule; but the chief reason for their wonderful growth and bloom is this: "When any of the leaves wither and fall, instead of picking them up and throwing them away, I make little rolls of them and tuck them down in the earth and let them decay; and this is the only fertilizer I have ever used. This," she added modestly, "seems to be nature's way. And the plants that have the afternoon sun only, grow and rival those that have the morning sun."

SCIENCE.

A mixture of forty parts of chalk, fifty of resin and four of linseed oil, melted together, and one part of copperas, and finally one of sulphuric acid added to it, and applied hot to wood with a brush, is said to render the surface as hard as a stone.

A big walnut log from an out-of-the-way part of France arrived in New York a few days ago. It was twelve feet long, and nine in diameter, and it is said to weigh nearly twenty-two tons. The log is said to be worth, as it stands, \$2,000 or \$6,000 when cut into veneers.

HUMAN OBESITY.—We reported on Saturday the death of the "fattest woman in the world," a member and special curiosity of Nathan's Cleveland Circus in America, who appears to have been smothered in bed. Miss Conley, though the most enormous of her sex, weighing 497 pounds, fell far short of that prodigy of human bulk, the famous Daniel Lambert, who died in 1809, during Stamford Fair, at the age of 40. Lambert weighed no less than 52 stone 11 pounds, that is, 739 pounds or close upon half as much again as the American lady. Daniel Lambert's coffin with his body could not be brought down the stairs of the house in which he died, and the wall at the sides of the window had to be broken away to provide an exit. He was 5 feet 11 inches in height, measured 9 feet 4 inches around the body, 3 feet 1 inch around the leg. He never drank any beverage but water, and slept less than eight hours per day. The "Claimant," at his stoutest weighed only 26 stone or less than half the weight of Daniel Lambert. —*London Times*.

A concentrated solution of bichromate of potash and glue makes, it is said, a cement for repairing articles of broken glass which will resist boiling water. The cement is first carefully applied to the fractured surface, and after the parts are brought together the whole is exposed to the action of the sun.

The *Scientific American* having stated that the sound of a locomotive whistle could be heard only about 3,300 yards, a North Carolina correspondent writes that he has distinctly heard the whistle of a locomotive seven miles, air-line measurement, and that persons of

undoubted veracity have told him they have heard the sound ten miles distant.

A writer in one of the medical journals says he has found the application of a strong solution of chromic acid, three or four times a day, by means of a camel's hair pencil, to be the best and easiest method for removing warts.

A most remarkable discovery is that announced by Dr. Brown-Segard, to the Paris Biological Society, some months ago. This widely-known physiologist has found a very simple means by which he can produce insensibility to pain for a long time without affecting the consciousness, the voluntary movements, or even the sense of touch in any part of the skin. Wounds made on monkeys or other animals while in this state of analgesia may heal without causing pain. The method has not yet been applied to man, however. It consists in irritating the mucous membrane in the upper part of the larynx by carbonic acid or chloroform vapor.

The new glass invented in Vienna seems to have proved a success in the qualities claimed for it—that is, it is transparent and more brilliant than common crystal, can be cut and polished, and, when fused, adheres to iron, bronze, and zinc. Singularly enough, this glass differs from all others, new or old, in that its composition includes none of the usual ingredients—silica, potash, soda, lime or borax.

The *Monitor Industriel* gives an account of the trial of an electric boat, at Geneva, on July 22nd. It was 20 feet long by 14 feet wide. The boat was driven for several hours, at a speed of from 5½ to 6½ miles per hour, by three bichromatic batteries of six cells each. The motor which was on the Thury system—acted directly on an at-walled screw there being no intermediate gearing.

VARIETIES.

A family named Redd passed through Georgia a few days ago, and they seemed to follow the name out in every fashion and peculiarity of their nature. The man, wife, and three children were all red-headed, while the man's beard, eyebrows, and even his nose, were of a deep red. He was clothed in a full suit of red jeans and had on a red knit shirt. The woman and children (all girls) were clothed in spotless red calico, had on red collars and ties, and no portion of their attire was visible except it was of a red colour. They were driving two bay horses, attached to a red wagon with a red cover. Everything visible was of the same colour, even a number of newspapers in the wagon were read.

Here is a good story about an old Welsh Methodist minister baptizing an infant:—"He took the babe in his arms very affectionately, and addressed in a paternal fashion a few words of advice to the young parents:—See that you train up the child in the way that he should go, that you surround him with the best influences, and that you give him a good example. If you do so who knows but that he may become a *Christmas Evans* or *John Elias*? What is the name of the child? 'Jane, sir,' replied the mother.—"From 'Echoes from the Welsh Hills'."

A distinguished New York artist was speaking of an acquaintance who has won some reputation in the world of letters. "It is strange," he observed to a companion, "how smart that fellow is; why, I have known his father for forty years, and he is as stupid as he can be." "Well, mused the other, 'it's not so very odd, after all; there's your son, now; he is bright.'"

An enterprising reporter, writing of a wreck at sea, stated that no less than fourteen of the unfortunate crew and passengers bit the dust.

Wun Lung is the short-winded name of a Chinese tragedian. He must have a voice like a penny whistle.

The following epitaph came before the Oldham Corporation Cemeteries' Committee for approval "Think what a wife should be, and she was that."

An Ohio breach of promise suit brought out letters on which the postage was 32 cents, and in which the word "darling" was used 620 times.

A Chinaman who was called as a witness in Queensland was asked how he would be sworn, when he replied:—"Me no care, clack 'im saucer, kill 'im hen, blow out 'im matchee, smell 'im book, all samee." He was allowed to "smell 'im book."

A little knoll-edge is a dangerous thing in turning a sharp corner with a heavy load.

Adam was not a polygamist, although in his day he married all the women in the world.

HALIFAX MEDICAL COLLEGE.

The SEVENTEENTH SESSION of this institution will open on

THURSDAY, OCT. 25, 1883.

For any information or for copy of "Annual Announcement," address the Registrar,

J. F. BLACK, M.D.,
49 GRANVILLE ST.,
Halifax, N. S.

Aug. 22.

10 ins.

30 YEARS!

Important trial of THIRTY YEARS decided, and a jury of half a million people have given their verdict that

MINARD'S LINIMENT!

Is the best inflammation allayer and Pain destroyer in the world. 500 Medical men endorse and use it in their practice, and believe it is well worthy the name.

KING OF PAIN!

\$100 will be paid for a case it will not cure or help of the following Diseases: Diphtheria and Rheumatism; Scalds, Chills, Galls, Boils, Sprains, Lumbago, Bronchitis, Burns, Toothache, Broken Breasts, Sore Nipples, Felons, Stings, Frost Bites, Bruises, old Sores, Wounds, Earache, Pain in the Side or Back, Contractions of the Muscles.

There is nothing like it when taken internally for Croup, Colds, Croup, Colds, Coughs, Pleurisy, Hoarseness, and Sore Throat. It is perfectly harmless, and can be given according to directions without any injury whatever.

A Positive Cure for Corns and Warts. And will produce a fine growth of Hair on bald heads in cases where the Hair has fallen from disease, as thousands of testimonials will prove. A trial will convince the most sceptical that the above is true. Send to us for testimonials of distinguished men who have used.

MINARD'S LINIMENT

And now have a beautiful crop of Hair; and hundreds who have used it are willing to swear that by the use of Minard's Liniment they have obtained a new growth of Hair.

W. J. NELSON & Co.,
Proprietors, Bridgewater, N. S.
Wholesale agents—Forsyth, Sutcliffe & Co., and Brown & Webb, Halifax.
Feb. 14.

Paper Hangings

AT
WM GOSSIP'S,
UNITED SERVICE
Book & Stationery
Warehouse,
NO. 103 GRANVILLE ST.,
HALIFAX, N. S.

My importations of

ROOM PAPER

This season are very attractive. They are in time to escape the additional protective duty imposed by the Dominion Government, and will be sold at correspondingly low rates.

SOLD WHOLESALE

by the bale of four or five hundred rolls, about twenty patterns in a bale, from 6 cts. a roll and upward. Send to

William Gossip,

No. 103 Granville Street,
Also just received, a large assortment of Artists' Materials, Oil and Water Colours, &c. Drawing Paper, Canvases, Brushes, &c., &c. March 22.

1872 MUSIC CARD. 1883

The Gates' Organ and Piano Company, (Limited).

Capital \$60,000—Encourage Home Enterprise.

Prof. C. E. Gates, President; W. J. Gates, Manager; G. O. Gates, Superintendent. Factory TRURO, Warerooms HALIFAX & TRURO, N. S.

FOR SALE.—Pianos, Organs, Music Stools, Sheet Music, Music Books, and all kinds of Musical Instruments. Pianos and Organs fully warranted.

"SUDDS" Famed 180 page Organ Instructor only \$2.50.
"New 300 page Piano Instructor only \$3.50 and \$2.00.

The Musical Journal published monthly by the Company,
(120 pages New Music). Price only 60 cents per annum.
Jan. 31.

THE KEY TO HEALTH.

BURDOCK BLOOD BITTERS

Unlocks all the clogged avenues of the Bowels, Kidneys and Liver, carrying off gradually without weakening the system, all the impurities and foul humors of the secretions; at the same time Correcting Acidity of the Stomach, curing Bileousness, Dyspepsia, Headaches, Dizziness, Heartburn, Constipation, Dryness of the Skin, Dropsy, Dimness of Vision, Jaundice, Salt Rheum, Erysipelas, Scrofula, Fluctuating of the Heart, Nervousness and General Debility; all these and many other similar complaints yield to the happy influence of BURDOCK BLOOD BITTERS.

Sample Bottles 10c; Regular size \$1.
For sale by all dealers.
W. H. HARRISON & Co., Proprietors, Toronto
Oct. 4.

\$72 A WEEK. \$12 a day at home easily made. Costly outfit free. Address TRUE & Co., Augusta, Maine
Sept. 20, 1880.

THE GEM PHOTOGRAPH ALBUM.

Each album is in a handsome binding, and on the front cover is a hand painting of a bunch of flowers. Nothing is more appropriate as a gift or more pleasing to possess than a photograph album. How pleasant to look at the faces of friends and acquaintances, bringing up pleasant memories of those who are perhaps far away, or may have long since departed. In order to meet the increasing demand for these goods, we have imported a large stock, and offer them at the following low prices. Price, 10 cts.; 3 for 25 cts.; 12 for 75 cts. Sent by mail, post-paid. Agents wanted for visiting cards, books, and novelties. 12 fine samples and outfit for 3c. stamp. Return this slip and address

A. W. KINNEY, Yarmouth, N. S.

Oct. 8. till Dec. 25.

J. B. KINNEY, ARCHITECT.

Designs, Plans and Specifications prepared for all classes of Buildings. Also: Rural Cemeteries surveyed and planned.

Yarmouth, N. S.

Oct. 12.

WANZER Sewing Machine. BEST IN THE WORLD.

Awarded First Prize wherever exhibited.

Used and recommended by the leading DRESSMAKERS, TAILORS and SHOE-MAKERS.

THE WANZER MACHINE

for FAMILY SEWING is the easiest running and quietest Sewing Machine made, and has more improvements than any other Sewing Machine.

Price List and Circular sent free on application.

J. E. ROY & CO.,

Agents for Nova Scotia,

107 & 109 BARRINGTON ST., HALIFAX, N. S.

Branch Office and sub-agents throughout the Province.
July 18. 1y.

Rev. Father Wilds' EXPERIENCE.

The Rev. Z. P. Wilds, well-known city missionary in New York, and brother of the late eminent Judge Wilds, of the Massachusetts Supreme Court, writes as follows:

"I am, 54th St., New York, May 16, 1882. MESSRS. J. C. AYER & Co., Gentlemen: Last winter I was troubled with a most uncomfortable itching humor affecting more especially my limbs, which itched so intolerably at night, and burned so intensely, that I could scarcely bear any clothing over them. I was also a sufferer from a severe catarrh and catarrhal cough; my appetite was poor, and my system a good deal run down. Knowing the value of AYER'S SARSAPARILLA, by observation of many other cases, and from personal use in former years, I began taking it for the above-named disorders. My appetite improved almost from the first dose. After a short time the fever and itching were allayed, and all signs of irritation of the skin disappeared. My catarrh and cough were also cured by the same means, and my general health greatly improved, until it is now excellent. I feel a hundred per cent stronger, and I attribute these results to the use of the SARSAPARILLA, which I recommend with all confidence as the best blood medicine ever devised. I took it in small doses three times a day, and used, in all, less than two bottles. I place these facts at your service, hoping their publication may do good."
Yours respectfully, Z. P. WILDS.

The above instance is but one of the many cures effected by our medicine, which prove the perfect adaptability of AYER'S SARSAPARILLA to the cure of all diseases arising from impure or impoverished blood, and a weakened vitality.

Ayer's Sarsaparilla

cleanses, enriches, and strengthens the blood, stimulates the action of the stomach and bowels, and thereby enables the system to resist and overcome the attacks of all Scrofulous Diseases, Eruptions of the Skin, Rheumatism, Catarrh, General Debility, and all disorders resulting from poor or corrupted blood and a low state of the system.

PREPARED BY
Dr. J. C. Ayer & Co., Lowell, Mass.
Sold by all Druggists; price \$1, six bottles for \$5.

AYER'S CATHARTIC PILLS.

Best Purgative Medicine
cure Constipation, Indigestion, Headache, and all Biliary Disorders.

Sold everywhere. Always reliable.

Feb. 7. 1y.

HALIFAX STEAM DYE WORKS,

566 Upper Water Street,

(Opposite H. M. Naval Yard)

Established 1871.

JOHN HUBELEY, Proprietor.

COATS, Pants, Vests, Shawls, Sacques, Dresses, Cloaks, Curtains, Table Cloths, Cashmere Shawls, &c., Cleaned and Dyed to look like new.

Silk Ribbons, Scarves, Crape Shawls, Satin Neckties, &c., Dyed all Colours.

FEATHERS DYED AND CURLED.

Gents' Garments cleansed and pressed, Goods damaged by fire or water, faded or soiled, Dyed to look like new.

Mourning Dyed at the shortest notice.

Gents' Garments and Ladies' Dresses, all wool, Dyed and Pressed whole, without ripping.

AGENT—MISS CAROLINE LAWSON, 123 Barrington Street, opposite St. Paul's Church.

JOHN HUBELEY,

566 Upper Water Street,

Cheapest Place in the city for Dyeing.

Oct. 12. 1y.

CHRISTIAN MESSENGER

Printing Office,

69 & 71 GRANVILLE ST.,

HALIFAX, N. S.

All kinds of

JOB PRINTING

Executed with neatness and despatch

BOOKS,

PAMPHLETS,

CIRCULARS

BILL-HEADS,

POSTERS

Business Cards

Of all kinds

WEDDING CARDS,

LADIES VISITING CARDS,

TICKETS & LABELS

At reasonable prices.

Sunday School Headquarters.

BRITISH AMERICAN

BOOK AND TRACT SOCIETY,

Depository, 117 Granville St., Halifax,

Secretary and Superintendent of Colportage

A. N. ARCHIBALD.

Ample supply of the best and most popular Sunday School Books published.

HALF PRICE.—Books of Religious Tract Society, London; STRONGEST BINDING, SUPERIOR TYPE. Sold both through the Depository and the Society's Colporteurs in lots to suit the Schools.

50 Volumes for from \$6.00 to \$8.00

The Committee have been selecting from the leading Publishing Houses of Great Britain and America for 15 years the choicest S. S. publications, and have made a specialty of Libraries, Periodicals, Lesson Helps, Cards, etc.

PELOUBET'S SELECT NOTES ON INTERNATIONAL S. S. LESSONS, postpaid \$1.25.

HACKETT'S COMMENTARY ON ACTS, edited by Dr. Hovey, of Newton, postpaid, \$2.

People's Home Mission Agency.

The Society has been in operation 15 years. Colporteurs to the number of 102 have been employed, who have distributed Bibles and good books worth \$141,236 by sale, and books and tracts valued at \$10,081 by grant. Total grants by the Society, including those from Depot, more than \$16,000 worth. Time served by the Colporteurs equals that of one man for 142 years.

Labrador, Newfoundland, Cape Breton, P. E. Island, Nova Scotia, New Brunswick, and a portion of Quebec have been explored. There have been found 1,525 families without God's Word; 2,562 families with no other religious book; and 2,545 families who habitually neglect attending any place of worship. The 26 Colporteurs employed in 1882 performed labor equal to that of one man for 124 years; found 205 Protestant families without Bibles, 279 with no other religious books, and 373 families who never enter the House of God. They sold books worth \$13,332, and made free grants to the value of \$913, as they made 31,679 family visits, and held 625 religious meetings.

The books circulated are sound and good, teaching the ruin of man by the fall, regeneration by the Holy Spirit, and redemption through our Lord and Saviour Jesus Christ. They are eminently designed to spread abroad Divine truth, and they are accepted by those that in every place call upon the name of the Lord. They give no uncertain sound upon the essential doctrines of the Cross: Justification through the blood of the Redeemer, holiness through the sanctification of the Spirit, and complete redemption through God's grace alone. Books and tracts designed especially to awaken the impatient and slothful to Jesus are imported in great numbers. Almost 10,000 "Come to Jesus" were distributed last year.

The prayers of all God's people are earnestly requested for the Spirit's power to accompany the reading of the books and the evangelistic efforts of the Colporteurs. A copy of the last Annual Report, giving much interesting information and copious extracts from the Colporteurs' reports, will be sent on application to the Secretary.

American Baptist Publication Society.

As advertised last year, we continue to order the publications of the above Society upon which we allow a discount of FIFTY per cent., excepting periodicals, from the catalogue prices. As compared with the issues of the British houses these books are expensive. Catalogues will be supplied upon application, and those ordering can decide for themselves.

The *Psalmist*, published in the United States for 55 cents, we continue to sell for 75 cents. From our Depot and through Colporteurs about 5,000 *Psalmists* have been already sold.

Donations to Dec. 31st, 1882, in aid of Colportage, \$40,127; amount paid by Society to Dec. 31st, 1882, for Colportage, \$63,250.

Patronize the Depository and thus aid Colportage, to which all accruing profits are applicable.

Jan. 31. 1y.

WANTED.

LIVE ACTIVE AGENTS wanted in all parts of the Province to sell ELLIOT'S GENEALOGICAL and CHRONOLOGICAL CHART of British History.

To Agents of the right stamp a rare chance is offered, as the work is sold only by subscription.

Send for Circular giving full particulars. Address

JAMES F. ELLIOT,

Box 77, P. O.,

Halifax, N. S.

Nov. 22.

1y.