# Agricultural.

ALCOHOLOGICA CONTRACTOR

# VEGETABLE PATHOLOGY.

The scuence of vegetable pathology explains the natural causes, and symptoms of diseases in places; a subject with which the hortculturist especially should be well conversant. All plants are more or less hable to diseases, and, unlike animals so generally possessed of loco-motion, they are fixed to the soil, and are compelled to endure, unprotected, the frequently injurious influence of external circumstances; such as the variations of temperature, the attacks of the lightning, the hurricane, and the storm. Disease is also engendered from the from the improper treatment of man himself -When we consider these and other extensive causes for diseases in plants, we should no longer be surprised at their weak state or sudden decay, but rather wonder that they should have ilourished at all under such a complication one of the following causes :-

All diseases of plants affect, directly or indirectly, either the root, the leaf, or the stem.

From the important relation which the root bears to the rest of the plant, anything which tends to destroy its functions must in a great measure injure its health, and, in cases of extensive injury, even cause death. Roots may be wounded by instruments used in working the ground and from the attack of subterranean animals, such as moles, rabbits, mice, and a whole host of insects, the last of which injure roots chiefly when in the larva state, by devouring the minute rootlets; and when these larvo occur in great numbers, the fibrils often suffer in a great degree, being either broken by those which undermine for shelter, or caten by others, and the plants are in a great measure deprived of their wonted supply of nourishment. When the roots have been thus attacked by insects, the most approved remedy is a solution of limewater and tobacco water, poured supon the ground over the affected parts: even unslacked lime has been dug in with great advantage -To entrap the wire worm, Sir Joseph Banks recommends slices of potatoes to be buried where they abound, frequently examining the baits and destroying such as have collected on them. When a plant happens to have its roots lacerated, these ought to be protected from extremes of heat and cold; the ground in the neighbourhood should be kept moderately moist; if possible, the plant itself shaded; and whatever else may be found conducive to its health should be resorted to, to induce the formation of new roots. Gangrene, is another disease of the roots which often occurs, is another disease of the foots propretors of the Cultivator, and the other papers alluded which often occurs, and is of two kinds—wer to, suffered great loss, and the propretors of the Agriculturist have, so far, been out of pocket, besides the time, labor and auxiety spent in its publication. Is the reproach that the tarmers of Canada will not support an agricultural paper of any kind, to continue? We hope not. Let those who love their country, and desire its improvement, make a little more effort this year, and the reproach may be wined out forever. have been officiously judulged in too much water. Dry gangrene in roots is similar to that

in stems, and will be noticed under that head. Another disease to which plants are liable, is that affecting the leaf. Plants frequently be come stropped of their foliage in a short time by the ravages of the caterpillars of butterflies and moths, although generally these are more sparing in their attacks. These, with many others, prev upon most plants fit for the food of man. Various methods have been had recourse to for the destruction of caterpillars, such as washing with tobacco water and soap, limewater, &c., boiling-water has also been tried with success; and, for these insects which seek laid on and dug in is highly efficacious. Be. Who will try? Where is the township of Canada West, sides these remedies, however, there is what may be termed an approach to a natural cure for this infection, in the large of an arbidize. for this infection, in the larve of an ophidivorous fly: the same animal also destroys the caterpillars in great numbers Some insects lay their eggs close to each other on the backs of the leaves of certain plants. After a time, these become hatchful, and the larve, each for itself, pierces a small hole immediately above the attachment of the egg from which it came, and, passing through the leaf, arrives at the upper surface, when it commences its mining, covered only with the cuticle. The leaves of apple and pear-trees are very subject to this affection.— But, besides the ravages of insects, leaves are liable to become attacked by various cryptogamic plants, from circumstances not well ascertained. The most familiar of these is known by the name of "mildew," which is at once observable by the white appearance it bears on able to its appearance, as cold dry weather and particular exposures—plants under the shade of others, or otherwise shaded, apparently suffer- graphical Sketches—Parliam mary Proceedings of the particular than those follows: orothers, orotherwise shaded, apparently suffer graphical Sketches—Parliam stary Proceedings, Europeing more than those fully exposed. From milan and American News, Market Prices, &c. crescopical observations this parasitical plant seems to be composed of globular somi-transparent masses, apparently sometimes attached to knirs on the plant, or collected into beaps on the surface of leaves and stems. The leaves of several plants belonging to the kitchen gardensuch as horse radish, cabbage, &c .- are sometimes attacked by a parasitical plant (Urclo candida.) in appearance not much unlike the "mildew" to the naked eye, which has been found, from experience, to be highly infectious. There is likewise a curious parasitical disease (Ecidium grosularia) to which the leaves of

gooseberry trees are liable. edies proposed for these diseases, perhaps the best is thinning round the affected parts. Parasitical plants, apparently of a somewhat similar structure, occur of different colours There is the red, termed "rubigo," or rust ( I'redo salaers,) occurs on the leaves and stems of many plants. There is also a black kind, termed "smut" (Uredo senetum.) it is most destructive to Pheat oats, &c., which are also very often affected with the red kind According to several experiments on this subject, it appears that the best and simplest method for the prevention of these parasitical diseases in corn, is to steep the seeds of affected plants in lime-water for twenty-four hours. When either the black or ravoges of insects and birds, from the bad soil rea parasite appears on thou plants, treat them in which they may be placed, and too often as for mildew. Delicate and rare plants may have their leaves washed with water. Lime water has been found of service on apple-trees In hardy plants slightly affected, remove all the diseased leaves or shoots An apple tree annually affected was perfectly cured by a free washing of what is termed the "cream of lime" during of evils. These evils will be found to arise from the winter, and the tree ppeared very little the worse, having next spring thrown out healthy shoots in abundance, except at the termination of one branch, which passed partly through a currant-bush next to it on the wall, and which suffered the usual attack from mildew. From this case it may be inferred that the seeds of the parasite remain about the buds and stems until a fit period for their evolution.

TO BE CONTINUED.

### THE FARMER'S PAPER THE CANADIAN AGRICULTURIST:

The best and cheapest Farmer's paper published in Canada and the only one now published in Upper Canada.

THE second volume of the Agriculturist, in its presen form, commences January 1850. It is issued monthly, and contains 24 pages, double columns, imperial octavo. During the present yea, the advertising sheet will be dispensed with. It will contain numerous illustrations of Machines and Farm Implements. Farm Houses and Cutages. &c., Plans for School Houses and Dagrams in explanations of questions in machinical source. planations of questions in machanical science, and natural philosophy.

Great care will be taken in the selection of matter, whether relating to Agriculture, Horticulture, Mechanics, Domestic Economy, Education, or general Science.— Several intelligent practical tarmers and gardeners have promised correspondence, and the eduors will be happy promised correspondence, and the cuttors will be mappy to reserve communications from all their subscribers.—Such as are of interest will be freely published. I'wo or three gentlemen of high scientific attainments [one of whom is connected with the University.] have agreed to contribute to the colums of the Agriculturist.

Farmers, subscribe and pay for your paper, and then write for it, all parties will thus be pleased and bene-

The Agriculturist is devoted to the development and advancement of the real interests of Canada. Much good has atready been done by this paper, and those which preceded it, and of which it is a continuation. But the proprietors of the Cultivator, and the other papers alluded be wiped out forever.

As an inducement to extra exertion, we offer the follow ing Premiums:

ONE HUNDRED DOLLARS! SEVENTY-FIVE DOLLARS! FIFTY DOLLARS!

Every person who will procure 200 subscribers for the Agriculturist, at the subscription of ONE DOLLAR, and remit the money at the time of ordering the paper, will be paid \$100; for 160 subscribers, \$75; for 120 ditto, \$50; for 75 ditto, \$30; for 60 ditto, \$25.

Agricultural Societies, and those persons who obtain

paper through the society, are excluded from the above. As we have no travelling agents, the offers are open, and accessible to all, with the exception just mentioned. No papers will be sent unless the subscription accompanies the order, until the smallest number [60] is realized: after with success; and, for these insects which seek that one-half the price may be retained by the competitor, the ground at particular seasons, unslaked lime till the completion of the list which he intends to forward.

> mit us the subscription, free of postage, will be allowed 25 per cent.

> George Buckland, Secretary Agricultural Assocition, Principal Editor, assited by William McDougall. Proprietor.

All letters should be post-paid, and addressed "To the Editors of the Agriculturist, Toronto.

# DOLLAR NEWSPAPER.

PHIL Montreal Weckly Transcript or Dollar Newspaper, is published at the low rate of one bollan per annum, in clubs of seven or more.

SINGLE COPIES FIVE SHILLINGS FOR TEN MONTHS.

The Weekly Transcript contains all the reading matter of the Tri-Weekly Transcript, consisting, in addition to

24 Furners and Hortculturists will always find in the columns of the Weekly Transcript extracts from the best agricultural publications of the day.

We invite practical farmers to favor us with communications relative to their own experience and discoveries in agriculture, which we shall be happy to lay before the public.

\$3- Any person sending a Club of Ten Subscribers

will be entitled to an extra copy for his trouble.

NO CREDIT-CASH ALWAYS IN ADVANCE.

All Letters to be post paid, or they will not be taken from the Post Office.

D. McDONALD. Proprietor of the Montreal Transcript.

Amongst the rem- REV. DR. DOWLING'S GREAT WORK ON ROMANISM.

> New and enlarged Edition, with the Author's last additions

> A BOOK FOR EVERY PROTESTANT

The History of Romanism, from its earliest oriof 50 highly fluished engravings, chiefly from original designs.

lust published with the Author's final corrections, a new and enlarged Edution of this spleadid an? popular work, with a copious supplement, comprising a History of the Life and Reign of the present remarkable Pope, PIUS IX, and a Bi ographical Sketch of the last Pope GREGO RYXVI.

THE best enconnum upon this learned, complete and popular History of Romanism, is the fact that SIX-TEEN THOUSAND COPIES have been sold in about three years, and still there is a constant demand for it in all parts of the country. In order to meet this demand, and to gratify the public curiosity in relation to the present Pope Plus IX, the present enlarged edition is presented to the public. With the Supplement, the work how forms a splendid octavo volume, for the parlor, or for the library. of 732 pages.

Testimonials to former Editions, selected from more than a hundred, from all Protestant Denomi nations.

### DPISCOPAL.

From the Protestant Churchman.

"This is a beautiful volume of 672 pages. Good service has been done for the cause of truth by this publica-tion, and it certainly ought to secure for its author an enviable reputation among contributors to the standard literature of the day."

From the Episcopal Recorder.

"It traces its subject from the earliest corruptions of Christianity to the present time. It has a full Chronolo-gical Table, with Analytical and Alphabetical Indices and Glossary. It is a large and beautiful volume, and full of valuable information."

### METHODIST.

From Zion's Herald.

 $^{\circ}$  It is written in a popular style. Its engravings are numerous and finely executed. The book will doubtless he popular, and cannot fail to produce a profound convic-tion of the terrible iniquity of Anti-Christ."

Rev. George Coles, of the Christian Advocate and Jour nal, says—'I cannot but express my gratitude to Almighty God that such a concise and complete development of the Mystery of Iniquity' is now presented to the public in a torm so elegant and attractive."

### CONGREGATIONAL.

Rev. Dr. Cheever, in the New York Evangelist, says We ought to have noticed this excellent and beautiful work before. It possesses many and v 14 strong claims for popular favor, and we do not doubt that it is destined to have an extraordinary sale. The work itself is characterized by great research, and a comprehensive and Scriptural view of the nature and history of the Popish system."

### PRESBYTERIAN. From the (Philadelphia) Presbyterian.

"Such a work required deep and protracted research and it affords evidence that diligence, caution, and judgment, in the selection and arrangement of materials, have not been wanting. The author has availed himself of the writings of both Protestants and Papists, and has brought together a greater mass of information on the history, the spirit, and the doings of Popery, than we have ever seen before in one volume."

# MISCELLANEOUS.

From the Christian Intelligencer, (Dutch Reformed.)

"Those who would see a correct and condensed exhibiin 1 nose who would see a correct and consensed examination of the ten thousand adominations of the Papacy, may find it, to their amazement, in 'Dowling's History of Romanism.' Its contents form a rich sortchouse of historical instruction, which, if it could be placed within the reach of every family, would prove an unspeakable blessing to our beloved country. This is the book for Americans. Place it beside your Bibles. Compare its records of crime and the Papal writeinles it exposes with the bely doctrines and the Papal principles it exposes with the holy doctrines and immaculate life of Jesus of Nazareth. When you have done this, you will have no difficulty in deter-

mining whether or not Romanism is Christianity."

Rec. Alexander Campbell, President of Bethany College, of the Church of the Reformers, says: "In this work are an immense essemblage of facts and documents con-nected with the development and history of this great mammoth institution of error and iniquity, Popery is developed in this treatise from its birth to the present hour. We desire for this Book a very large circulation. It is only necessary to enlighten this community in the true spirit and character of the Papa system, to secure them prize?

Agricultural Societies ordering 25 copies and upwards, only necessary to enlighten this community in the true will be supplied at half a dollar; twelve copies and upwards, 3s. 9d. Single subscriptions, one dollar. Local against its insiduous attacks upon everything we as a people of the bold dear and sacred. Let every one who buys this ple hold dear and sacred. Let every one who buys this work communicate freely to all around him the develop-

ments which it reveals, and the facts which it records."

President Cramp, of Montreal, Editor of the Montreal
Register, and author of the Text Book of Popery, says:—

"This important work possesses merits of a high order.
We are pleased to see that Dr. Dowling furnishes ample references to his authorities. The matter is well arranged; the facts unaded in a bush to style head a said the facility of the facts unaded in the style head a said the facility of the facts unaded in the style head a said the facility of the facts unaded in the said the said the facility of the facts unaded in the said the said the facts are said to the said t the facts unquestionable; the style lucid; and the spirit, Catholic, in the proper sense of the term. Its extensive circulation will be highly advantageous to Protestanism."

1.7° Notwithstanding the extensive Supplement now added to this valuable work, the price will remain the same as the former editions. Three Dollars per copy.

## PRINTERS' AND BINDERS' WARE-HOUSE.

NOS. 29 AND 31 COLD STREET. Manufactory, Corner of Broome and Sheriff Streets, New York.

THE Subscribers offer for sale, of their own manufac ture, their improved patent Single and Double Oyl-inder Printing Presses, for Newspaper and Book work; Card Printing Machines, Proof Presses, Hydraulic Presses with Wrought Iton Cylinders, Geereed and other Standing Presses; also Lithographic and Copperplate Presses. Book Binders' materials. &c. Chases, Cases, Galleys, Furni-ture, stands, Imposing Stones, &c. &c. Constantly on hand, and every article necessary for a complete Printing Office including Type and Ink, furnished on the most favorable terms. Printers, Publishers, and others, wishing to establish a Newspaper, Book or Job office, will be furnished with an estimate of the same, in detail, if desired. Machinery made to order or drawings. Iron or Brass Castings to order. They also manufacture superior cast steel mill, pit, cross-cut, and other Saws, a supply of which by the year. R. HOE . CO.

New York, April 23, 1849.

# THE WATER CURE JOURNAL,

AND HERALD OF REFORMS.

VOLUME EIGHTH, COMMENCING JULY, 1849.

THE WATER-CURE JOURNAL AND HERALD OF REFORMS, is published monthly, at ONE gin to the present time—By the Rev John DOLLAR a year, madvance, containing thirty-two large Dowling, D. D.—Embellished with upwards octave pages, illustrated with Engravings, exhibiting the structure, Anatomy and Physiology of the entire Human Body, with familiar explanations and instructions to

### THIS JOURNAL

is emphatically a Journal of Health, adapted to all classes, and is designed to be a complete family guide, in all cases, and in all diseases.

will be fully unfolded, and so explained that all may apply it in various diseases, even those not curable by an other means. There is no system so simple, harmless, and universally applicable, as the Walen-Clae. Its effects are almost maraculous, and it has already been the means of saving the fives of thousands, who are entirely beyond the reach of all other known remedies.

THE PHYLOSOPHY OF LIFE AND MEALTH will be fully discussed, in every particular, including Food,

Air Drinks, Clothing, and Exercise, showing their effects on the body and mind.

in all our modes of life will be pointed out, and made so plain that "he that runs may read." We believe fully that man may prolong his life much beyond the number of years usually attained. We propose in this Journal to

### TO INVALIDE,

no matter of what hisease, the principles of Hydropathy may safely be appead, and in nine cases out of ten, great benefit may be derived therefrom-

### TO THOSE IN HEALTH.

Without health even life is not desirable, unless a remedy can be found. To preserve health no other mole of living can compare with this system. In fact, were its rule observed and carried out, many of our ills would be for ever banished from the earth, and the succeeding genera-tions grow up in all the vigor of true mankind.—It will be a part of our duty to teach the world how to preserve health, as well as to cure disease.

### TO WOMEN AND MOTHERS

it is universally conceded, by all intelligent practitionen, as well by the old school as the new, that the Water-Cun is not equalled by any other mode of treatment in those peculiar troubles common only to woman. This Journa will contain such advice and instruction as may be considered most important, in all these critical yet unavoidable cases. ble cases.

### TO HYDROPATHIC PRACTITIONERS.

We wish to have it distinctly understood, that this Journ will be devoted to the interests of no party, but will represent the entire Hydropathic profession. Our pages will be open to all who may favor us with such communics tions as may be of general interest to all classes. Report of unportant cases, and all other matters pertaining a health, will be thankfully received, and laid before on

# TO THE PUBLIC.

Our facilities for publishing such a work, as this are as surpassed by any other house in the United States. We have obtained the co-operation of all the leading Mydrowhole combined talent of the entire profession. Beside pathic writers of the age, which will enable us to present this we have had a wide experience in journal publishing and have secured the services of nearly all the media reformers in the land. reformers in the land.

# THIS JOURNAL

will be published monthly, containing thirty-two lan pages of the best matter, with reference to the application of this system, adapted to all classes, on the following

TERMS, INVARIABLY IN ADVANCE.

Single copy, one year, - - - \$1 00 Five copies, - - - - 4 00 Ten copies, - - - - 7 00 Twenty copies, - - - - 10 00 To receive attention, letters and orders must, in a cases, be Post-paid, and directed to

FOWLER & WELLS,

10

Clinton Hall, 129 and 131 Nassau street, N. Ya

# THE WATCHMAN, PUBLISHED ON

# Monday Evening

BY T. T. HOWARD.

Office, No. 6, Wellington Buildings, King Stre Toronto, Canada West.

\_\_\_TER MS\_\_

Annual Subscription, in advance,

when not paid in advance, 12s Ditto. 12 papers to one address per An., each, in advance, 8s An Agent furnishing 10 subscribers who pay in adva will be entitled to a copy gratis. For every addition

five pounds remitted in advance, the party remitting be entitled to a copy of the Watchman. 3 5 Communications to be addressed to T. T. How Box 321, Toronto P. O., invariably post paid, unless

literary character, or from parties acting as Agents ? tuitously. Payments considered in advance if made by the le

March, 1850. Ministers of the Gospel and other influential persons respectfully requested to act as Agents for the Watch

# RATES OF ADVERTISING.

Six Lines and under, 2s 6d for first, and 71d for each equent insertior.

Over Six Lines, 4d per Line for first, and Id for subsequent insertion. All Advertisements should be accompanied by wi

directions stating the number of insertions required not, they will be inserted till countermanded in writ and charged accordingly.

A liberal discount will be made to persons adver

RCBERT BOYLE, Printer.