

J. F. HALSTED, M. D.
 —PHYSICIAN, SURGEON, &c.—
Holland Centre
 Will be at Berkeley every Tuesday and Friday afternoon from one to four o'clock. 390-ly.

Dr. Sproule,
 —PHYSICIAN AND SURGEON,—
MARKDALE.
 Office—Manley's Drug Store.

C. A. MCBRIDE, M. D.,
 L. R. C. P. & S. EDINBURGH,
 Office at Stephen's Drug Store,
 Late of the London Hospital, England.

P. McCullough,
 BARRISTER, SOLICITOR, &c.
 OFFICE—OVER McFARLAND'S STORE,
MARKDALE.
 Money to Loan.

MASSON & MASSON,
 BARRISTERS, SOLICITORS, &c.
 OFFICES—Owen Sound, in Vicker's Block, Poulett St.; Branch office in Markdale, over McFarland's Store, on Friday and Saturday every week.
 J. Masson, Q. C. S. Masson. W. Masson.
 N. B.—Private and Company's funds to invest at from 6 to 8 per cent.

W. M. BROWN.
 DIVISION COURT CLERK.
 Issuer of Marriage Licenses, &c.
 Commissionary in B. R. &c.
 Conveyancing in all its branches promptly attended to and carefully executed.
 N. B.—Money to Lend on Real Estate security.

WILLIAM STUART,
 KIMBERLEY,
 Issue of Marriage Licenses. Money to Loan on Real Estate at low rates.
 A few farms for sale. Terms easy.

J. P. MARSHALL, L.D.S.
 —DENTIST.—
 GRADUATE OF TORONTO SCHOOL OF DENTISTRY, will be at the Markdale House, Markdale, on the 1st and 3rd Wednesday of each month and also at Munshaw's Hotel, Flesherton, the day following the third Wednesday in each month for the practice of his profession. Commencing on the 7th September.

MONEY TO LOAN.
 ON real estate security, at low rate of interest, no commission charged. Business Strictly Confidential.
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FARM FOR SALE.
 LOT No. 24, con. 4, N. D. R. Glenelg, 100 acres, will be sold cheap and on easy terms of payment, for further particulars apply on the premises, or by letter to
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R. J. SPROULE,
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 Conveyancer, Appraiser, Valuator and Money Lender. Deeds, Mortgages, Leases and Wills drawn up and Valuations made on shortest notice. Charges very low. Apply to
 R. J. SPROULE,
 Money Lender & Postmaster, Flesherton.

Will Stoddart
 THE TAILOR,
 is prepared to make your clothes neat and trim. The latest Fashion Plates always on hand to choose from.
 Remember, over McFarland's Store, Markdale.

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 Money loaned on Farm or Town Property at lowest rates of interest. Apply to
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 Private and Company's funds to invest in Real Estate at current rates of interest.
FARMS FOR SALE AND TO RENT.
 All business private and confidential. Appraisers for Canada Permanent Loan and Savings Company, Toronto.
 408-54 JOHN WHITBY, Markdale.

A. FOGERTY,
 LASTERER AND STONE MASON
 MARKDALE,
 Is prepared to take contracts in town or country. Calcimining and Whitewashing a specialty.

Monthly Fairs.
 Orangeville—The second Thursday in each month.
 Dundas—Tuesday before Orangeville.
 Flesherton—Monday before Orangeville.
 Markdale—Thursday before Orangeville.
 Dundas—Tuesday before the third week in September.


MARKDALE CARRIAGE - WORKS.
 R. McNally, practical manufacturer Wagons, Demoraits, Buggies, Blights, Cutters and everything in the line. The best material used and first-class workmanship. Satisfaction guaranteed.
Repairing, Painting and Trimming
 promptly attended to. A call respectfully solicited.
 Stand opposite the Markdale House.
 R. McNALLY.

NEW BLACKSMITH SHOP
W. M. BUSH,
 The Horse's Friend
 Is fully prepared to attend the wants of all who favor him with their custom, in McNally's establishment, opposite the Markdale House, Markdale. Parties having horses with contracted or otherwise bad feet will do well to give me a trial. This class of work a specialty.

SIGHT v. BLINDNESS.

N. STANLEY'S CELEBRATED English Spectacles
 79 BAY STREET, TORONTO CANADA.
 —AND—
 18 JEWIN STREET, LONDON E. C. ENGLAND

R. L. Stephen's,
 CHEMIST & DRUGGIST, Markdale
 Has the Agency for the sale of the above in MARKDALE. No Spectacles in the Market equal them in the EYE PRESERVING QUALITIES they possess, or the GREAT EASE and COMFORT they confer on the wearer.
 Their use will in actuality so strengthen the Eyes that it does not become necessary to change them for many years. They are therefore the CHEAPEST.

EXCELSIOR FURNITURE WAREHOUSES!
 I have now on hand a full and varied stock of all kinds and grades of FURNITURE, bought for cash from the most reliable firms in Canada, and I purpose doing business on a strictly cash basis which will put me in a position to sell at a small advance on cost and thereby give my customers the benefit. I shall esteem it a favor to have you call and look through
MY ESTABLISHMENT!
 whether you require anything in my line or not, and I feel confident that you will be delighted with and surprised at the quality and cheapness of my goods.—Upholstered goods a specialty.

UNDERTAKING

 In this department I have a complete stock of all kinds of funeral furnishings and all orders will have my prompt and careful attention. A first class hearse in connection.
Musical Instruments
 I also handle the celebrated Bell Organs and the famous Wanser Sewing Machines which may be seen on Exhibition at my warerooms, prices and grades to suit all purchasers.
Picture Framing.
 I shall keep in stock an assorted line of frames, and your esteemed orders will be attended to with neatness and despatch at rock bottom prices. With many thanks for the present patronage which I have received and hoping by fair prices and square dealing to merit an increase of the same.

PURE DRUGS

School Supplies.
 One gross of Underwood's School Black Ink,
 One gross of " Egyptian Black Ink,
 One gross of " Everlasting Bank Ink,
 SLATE, LEAD AND CRAYON PENCILS.
 ONE GROSS INDELIBILE LEAD PENCILS.

R. L. STEPHEN.

JUST ARRIVED
 1 Barrel Sulphur,
 1 Barrel Glauber Salts,
 1 Barrel Epsom Salts,
 2 Kegs Copperas,
 And 1 gross of the Best Blood Purifier for Stock in the market
(THE DERBY CONDITION POWDER.)

POPULAR DRUG STORE,

CONFUSION (Puccinia Graminis.)

In reply to your many questions referring to the writer has thought it expedient to furnish information in a bulletin that will answer these questions, and also those of other enquirers who are equally desirous to get some light upon this invisible foe:

LIFE HISTORY OF THE RUST PLANT (Puccinia graminis.)

Rust is the product of a minute plant belonging to a very extensive group, called the Fungi. Many of these are microscopic and live upon other plants, feeding upon the juices of the latter to such an extent as to affect their vitality. In this comprehensive group we find plants producing rust, smut, mildew, ergot, blight, potato rot and countless other diseases, that affect the higher forms of plant life. In the case of the so-called rust we find that a spore, which serves the purpose of a seed in higher plants, reaches the leaves or stalks of the plant attacked. If conditions are favorable it germinates and soon finds its way into the plant affected, and gives rise to a mass of threadlike structures (mycelium) which permeate the host plant and feed upon its juices. Not long after this vegetative condition has been attained, spores are produced in myriads on the threads of which it is composed. So numerous do they become, that they burst in this covering of the leaf or stalk and show a rust colored rupture. If the powder-like substance thus exposed be examined under a microscope, say 200 diameters, it will reveal that what appears to be dust is really a mass of regular formed seed-like bodies, consisting of one cell, oval in shape and reddish in color. Now these spores (uredo), finding their way to wheat plants, soon germinate, and again myriads of spores are produced, so that in a very short time, if conditions are favorable—damp, close, sultry weather—a whole field will be affected. The rapidity of growth in these lower forms of plant life is almost incredible, but the facts are too flagrant to doubt it. The rust plant does not stop here. A little later in the season, on the same threadlike structure (mycelium), another form of spore is produced; but these are usually more common on the lower part of the stalk, and are destined to carry the trouble into another season. The former are frequently spoken of as "summer spores," the latter is "winter spores." These last formed spores (teleuto) are two-celled, pear-shaped and black. Affected plants are then said to be attacked with "mildew" and suffer severely from the effects of this parasite, just at a time when the plant has reached a stage to mature a seed. These black spores proceed no further that season, and will not again give rise to mildew or wheat or another plant has served as nurse for a while. In spring the dark spores germinate and give rise to another form of simple spores (sporidia) formed at the ends of threads growing from each cell of the black spores. These (sporidia) as yet have not been discovered to germinate upon wheat; but when they reach the leaves of the Barberry shrub they germinate, enter the leaf and soon give rise on the underside to masses of cup-like structures, in which are produced innumerable round golden colored spores (aecidium), which will produce a vegetable growth only when they germinate on the wheat or some other closely allied plant. Then they give rise to the condition referred to as "rust." Such is the life history of this common foe, and to the reader must appear a very complicated one indeed; there being no less than four kinds of spores produced—uredo, teleuto, sporidia and aecidium. These for convenience, we might name summer, winter and spring spores; spring referring to the last two. Two grow on the wheat plant (uredo and teleuto), one in spring on stubble or fragments of straw (sporidia), and one on the leaves of the Barberry (aecidium.)

THE BARBERRY AS A HOST.

The question naturally arises here, Is the Barberry shrub to be blamed for all the rust? In order to defend this shrub against such a charge several views have been set forward, which are as follows:

1. Uredo spores may be carried over the winter upon plants that do not perish like wheat at the close of the season, e.g., couch grass, etc.

2. Sporidia may germinate on wheat without the intervention of another plant.

3. Sporidia may develop on other plants than the Barberry.

But as yet these are merely guesses as to the truth. That such a common enemy has so long eluded the investigation of scientists may seem remarkable; but when it is remembered how many conditions are required to be observed in searching such a minute foe, the surprise is not so great. However, it does seem that a sufficient case has been made out to prevent the further use of this shrub as a hedge plant in the neighborhood of wheat fields. The extreme minuteness of the aecidium spores enables them to be carried long distances by the wind, so that it is not necessary that the source of trouble should be close at hand. We may reasonably hope that a similar case will be made out in regard to the Barberry will be

SOCIETY DIRECTORY.

Markdale C. O. O. F. No. 78, meets alternate Monday evening at 8 o'clock in the Hall, Rae's block. Visiting brothers welcome.

Markdale A. O. U. W. No. 141 meets their Hall, Rae's block, every alternate Monday evening at 7 o'clock. A visit to brethren of neighboring lodges solicited.

MARKDALE L. O. L. No. 1045 meets in the Hall on Friday on or before full moon month. J. H. Carson, Master; W. J. B. Secretary.

Victoria R. B. Precentory, No. 8 meets in Lodge Room of Markdale L. O. L. No. 1045, first Friday in each month. Visiting Sir Knights always welcome. Jas. B. W. P. P.; Thos. Elliott, Registrar.

I. O. G. T.

JUBILEE LODGE, No. 128, meets every Tuesday in Haskett's Hall, Markdale, 7:30. W. Jackson, W. C. Alfred MacSec.

The Markdale Standard
 Is issued every Thursday, by
C. W. RUTLEDGE, Markdale, Ont.
 Terms—\$1 per year in advance; \$1.50 not paid within six months.
 Professional and business cards cost space and under, per year, \$4.
 1 Yr. 6 Mo. 3 Mo.
 Whole column.....\$50 00 \$27 50 \$15 00
 Half column..... 27 00 15 00 10 00
 Quarter column..... 15 00 10 00 7 00
 Two inch space..... 7 00 4 00 3 00
 Three inch space..... 10 00 6 00 4 00
 Casual advertisements 8 cents per line each subsequent insertion, 3 cents per line each subsequent insertion, nonparel measure.
 Editorial notices, or notices in local column 10 cents per line first insertion, 5 cents each subsequent insertion.
 Stray animals &c, advertised 3 weeks for no paper discontinued until all animals are paid except at the option of the publisher.

JOB PRINTING.
 THE STANDARD office has a splendid equipment of poster as well as fine job type. Special attention to orders by mail. All orders filled with dispatch.

Markdale Church Directors

PRESBYTERIAN CHURCH.
 Services every Sabbath at 10:30 a. m. Sabbath School at 2:30 p. m. Prayer Meeting every Wednesday evening 8 o'clock. Rev. A. Wilson, Pastor; McFarland, S. S. Superintendent.

CHRIST CHURCH.
 Services every Sunday at 10:30 a. m. and 7 p. m. Rev. Mr. Graham, Incumbent; Sabbath School 2:30. W. J. Ford, Superintendent.

METHODIST CHURCH.
 Services every Sunday at 10:30 a. m. and 7 p. m. Sunday School at 2:30. Prayer Meeting every Thursday evening from 6 to 7. Rev. Geo. Buggin Pastor; G. S. Brown, S. S. Superintendent. Ladies' Aid in connection; Mrs. T. Hill, Secretary. Strangers and visitors always welcome. Parties desiring sittings will apply to W. Rutledge, Pew Steward.

Post-Office Directory.

MARKDALE.
 The P. O. will be opened from 8 o'clock a. m. to 7 p. m. every working day. Mails closed as follows, viz:
 C. P. R., going North, 11:40 a. m. and 7 p. m. South, 8:30 p. m. and 11 p. m.

TRAVERSTON AND LAURISTON.
 Tuesday, Thursday and Saturday 12:30 noon.

HARKAWAY.
 Friday, 12:30 noon.

ERSKINE.
 Wednesday and Saturday 3 p. m.

Markdale Standard

THIS WEEK.

Special Lines
 Fresh Labrador Herrings
 " Finnan Haddie
 " Digby Chickens
 NEW DATES,
 NEW FIGS,
 NEW PRUNES,
 NEW RAISING
 NEW CURRANTS
 Lemon, Citron and
 Orange Peels, every
 variety of spices.
 Cakes and Confectionery,
 and largest stock in Markdale
 at most from.

ROCKERY & GLASSWARE
 great variety, cheaper than
 anywhere in the county.

TEAS T TEAS

TOBACCOS,
SMOKERS IN CIGARS
 the Provision line. We have
 our and Feed oil kinds, same
 at the mill. Just received one
 Wright's fresh catmeal.
 Liquor store is well stocked
 choicest brands, Bottled Ale \$5
 dozen. Give us a call and you
 away convinced.

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Jewellery,
Spectacles,
Silverware.
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DISCOUNT
 order to clear out some of
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 the fall stock. Do not miss
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