

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.

Jas. S. Freeborn,
 —M. D., Ch. M. L. K. & Q. C. P. L.,
 —M. C. P. S. O. &c., &c.—
 Graduate King's and Queen's College of Physicians in Ireland. Licentiate of the General Medical Council, Great Britain, Doctor of Medicine and master of Surgery Victoria Univ. Member of the College of Physicians and Surgeons, Ont. Formerly acting Surgeon B. Battery, R. C. A. Quebec. Late resident of the Rotunda Hospitals, (Lying in & Gynecological) Dublin.
 OFFICE AND NIGHT BELL
STEPHEN'S DRUG STORE.
 Residence over R. S. Rae's block.

Dr. Sproule & Brodie
 —PHYSICIANS AND SURGEONS,
MARKDALE.
 DR. SPROULE'S office Turner's Drug Store
 DR. BRODIE'S office Mathew's block.

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 from 5 to 8 per cent.

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

WILLIAM STUART,
 KIMBERLEY,
 Issuer 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, Flesherston, on 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.
 J. S. BLACK,
 190 Pomona, P. O.

FARM FOR SALE.
 LOT No. 24, cont. 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
 J. S. BLACK,
 190-4f, Pomona P. O.

MARKDALE HOUSE,
 MARKDALE. ONT.
J. E. Marsh, - Prop.

W. G. RICHARDS,
 BUILDER, CONTRACTOR, & ARCHITECT.
 Markdale.

R. J. SPROULE,
 FLESHERTON.
 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, Flesherston.

TO SCHOOL TRUSTEES.
 The undersigned is manufacturing an excellent assortment of
School Furniture.
 Consisting of SCHOOL SEATS and DESKS, TEACHERS' DESKS, &c., of the latest design and most approved pattern. Highly recommended by School Trustees and Teachers, for cheapness, comfort and compactness, wherever tried. An assortment of Farm and School Bells kept always on hand. Send for catalogue to Chatsworth P. O.
 181 ANDREW MCGILL.

Public Notice.
 To all whom it may concern.

I R. L. Stephen the Druggist of Markdale have been appointed agent for JOHNSON'S celebrated Tonic and Nerve. JOHNSON'S little Liver Pills, and JOHNSON'S all healing White Ointment. The Nerve is the very best in the market, in all diseases caused by poverty of blood, for Nervousness, Hysteria, and the PALPITATIONS of Complexion so often noticed in female's, loss of appetite and general debility. In conjunction with the Liver Pills, it is the very best for all diseases arising from Torpid liver or bad stomach. The White Ointment is the very best in the market for Salt Rheum, Barbers Itch, Pimples, Chafes, Burns, Scalds, and all skin diseases of a scrofulous nature. Try these fine remedies and you will not be disappointed. For sale at R. L. STEPHEN'S the Druggist, Markdale, Ont.

Oatmeal and Wheat for Store Cattle.
 BY WM. BROWN, PROFESSOR OF AGRICULTURE.

This world is not yet familiar with the conduct of all her common foods under every animal condition, much as has been done by experts. There is still a wide field of enquiry even with cereals, and hence we are trying to help in that direction.

When the Ontario oatmeal millers asked us to give a place to their interest similar to other grain and feeding materials we responded at once, and now have to report the beginning of a series of tests, having in view to ascertain the value to cattle of some of those forms of meals and grain not usually looked upon as applicable to lower animal life, because possibly of their greater value for man himself. The question is not alone the cost of producing beef or dairy products with these, but to obtain facts on the important one of the direct effects of special products on animal growth as well as milk. It is well to remember in this connection that while the testing of one kind of food can be taken in comparison with another, it should not necessarily be held as such with a mixture of them, or rather of a properly balanced ration, because on one kind of food is equal to the proper maintenance of life anywhere—milk for a certain period excepted. With this explanation we have pleasure in giving a brief account of what oatmeal and wheat have said to us during the past winter in the growth of store cattle.

We handled six head, three heifers and three steers, from two to three year old, and having Durham, Hereford, Aberdeen Poll and Holstein blood in their breeding; average weight on entry 1,281 lbs. These were properly paired and grouped so as to allow of rotating from one ration to another every third week, beginning January 7th and ending March 10th. One week was allowed between each change in order to over-influence the previous feeding before precise testings were noted, and of course each meal of all the animals was weighted and every other proper thing attended to as in all exact work of the kind. The oatmeal by the desire of the Millers' Association, was obtained from Mount Forest; the winter wheat was of our own growth and grinding. As a sequence of the reasoning giving in second paragraph, as well as of the fact that the same agents (plant or animals) should always be allowed their normal conditions during an experiment for comparison with ordinary or well known things, we made another ration with ground pease and oats. The following were, therefore, the daily rations employed per head:

No. 1. 25 lbs. mangels. 10 lbs. timothy hay. 5 lbs. oat straw. 2 lbs. wheat bran. All cut, pulped and mixed twice or thrice a week. 12 lbs. oatmeal, mixed with above when served.
 No. 2. 42 lbs. pulp as above. 8 lbs. wheat (winter) mixed as above.
 No. 3. 42 lbs. pulp as above. 8 lbs. ground oats. 4 lbs. ground pease. Mixed as above.

These rations may be criticised by the practical farmer in this way: About equal weight of dry fodder and of grain and about half of the whole being roots; plenty bulk and variety; looks more like a good meal for cows than fattening cattle.

The marked value of the material per head for the whole period of the test; under deduction of what was unconsumed and the approximate nutritive ratio of each course are:

Oatmeal ration cost \$11.30; n. r. 1:7.08. Wheat ration cost \$9.82; n. r. 1:7.98. Pease and oat ration cost \$8.10; n. r. 1:6.10

Now in preparing ourselves for the actual results of the feeding by a study of these rations based on the chemical composition of the foods, we should expect that the pease and oats would do best, the oatmeal second and the wheat third. This is not always safe reasoning, however, as the form or mechanical composition of food has a great deal to do in animal economy and often upsets our best theories: there is no chemist equal to Digestion. I am indulging thus because the prescribed Bulletin is not large enough for all details of the testing, but is sufficient for abstract criticism. Or it might be guessed that as the oatmeal ration is the most free of any crude materials, such as skin or husk of the grain, it will be more indigestible and therefore cannot give results equal to the wheat with its shell and the pease and oats with their rougher skins. But what are the practical facts in this preliminary enquiry?

Over all the period of 63 days with six cattle in three groups, rotated, and altogether under strict management, we have this per head per day record of increased live weight:

Oatmeal, .47, or almost half pound. Wheat, .93, or nearly one pound. Peas and oats, 1.30, or about 1 1/2 pound.

That there is interesting material here cannot be doubted. Rich in albumin, and particularly in fat, as oatmeal is, very considerable over all others in this testing, except albumin in pease, it may be considered that because of its compactness as a food, or rather perhaps its want of natural husk, and even though mixed with coarse, bulky fodders it is more indigestible than either wheat, pease or oats. The theoretical feeding value of the three rations being regulated by the respective grains, and wheat being the least in that respect, (see nutritive ratio) we should expect the poorest result in the animal report; but it has almost doubled the daily rates of oatmeal, and I find no such irregularity or back-going in its use as we had in two instances with different groups of cattle in the case of oatmeal. The most prominent back-going was when the changes were made from wheat to oatmeal.

Another look at the relative composition of these rations and of their digestibility shows that we have had a close agreement between science and practice in this testing. Of the oatmeal 77 per cent, is considered to be taken up by the animal system. 88 per cent, of winter wheat, and as much as 84 per cent, of the mixture of pease and oats is digestible.

In conclusion, therefore, it may be taken as correct to say that oatmeal is too rich, as well as valuable of course (\$35 per ton), for extensive use to store cattle, and may be should only be given sparingly to calves and milch chows, as to which we should have something to say next winter. Wheat for the second time in our experience, has given a good record in cattle feeding, when its concentrated form a considered, though much of this result is due no doubt to the coating usually called bran.

ADDITIONAL LOCALS.
 TO THE FARMERS.—I wish to inform you that I have now in store a car load of very fine Manitoba Barley and Spring Wheat for seed. Call at once and secure some as it will not last many days.
 S. BELL.

PUBLIC NOTICE.—Having opened out in the harness business in Markdale I would intimate to the public that I am desirous of a share of public patronage and will do all in my power to give satisfactory work and good value for your money. All kinds heavy and light harness kept in stock and made to order. Prompt attention to repairing. Call and see us, two doors from McFarland's blacksmith shop. J. J. McLinnao.

FOR SALE.—I will give you your pick of 4 cows, apply to Geo. Ireton, lot 98 on the second range, Glenelg.

FRESH LIME FOR SALE.—A. S. Irving.
LOOK HERE.—Groceries, Sweet Meats, Fruits, &c., at Sproule's provision store fresh and cheap. Flour and Feed same price as at the mill. A call respectfully solicited. Mrs. Clement's stock of Toys and Fancy Goods selling at cost.

READ BENSON'S adv. this week for fresh Clover and Garden Seeds. Cheapest place in town for GOOD FRESH SEEDS.

TO RENT.—A good brick dwelling with seven rooms, cellar, woodshed and cistern, possession given 1st May, also several choice lots for private residences in the best part of the village ("see registered plan" apply to G. S. Dowes).

MARKDALE MARKETS.—Fall wheat 75 to 80 cents; spring wheat 75 to 80; barley 50 to 70; peas 58; oats 40; butter 17 to 17.50; potatoes 60 per bag; hay 8.00; dressed hogs \$6.50 to \$6.00; timothy seed \$2.00 to \$2.85.

THE LARGEST SCALE WORKS IN CANADA.
 OVER 100 STYLES OF
 HAY SCALES,
 GRAIN SCALES,
 FARM SCALES,
 TEA SCALES,
 IMPROVED SHOW CASES
 MONEY DRAWERS
 Meat Choppers
 AND BUTCHERS' SUPPLIES
 Address in FULL. Write for terms.
C. WILSON & SON,
 48 ESPLANADE STREET EAST
 TORONTO, ONT.
 Mention this paper every time you write.



BIRTHS.
 Buxton—A. J. Fox William, on Tuesday, 10th inst., the wife of Mr. E. S. Buxton, merchant, of a daughter.

ROYAL BAKING POWDER
 Absolutely Pure.



This powder never varies. A marvel for purity, strength and wholesomeness. More economical than the ordinary kinds, and cannot be sold in competition with the multitude of low East, short weight alum or phosphate powders sold only in cans. ROYAL BAKING POWDER CO., 106 Wall St., N. Y.

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.

IT IS A WELL KNOWN FACT THAT
McCOLL'S
"LARDINE"

is the best known, and most reliable MACHINE OIL in the Dominion: Farmer's, Thresher's and Mill Owner's, will find it decidedly to their advantage to insist upon getting the "Genuine Lardine" when they ask for it, owing to so much inferior oil being sold under the same name by unscrupulous dealers. We are the sole manufacturers of the "Genuine Lardine" every barrel branded.
 McCOLL BROS., & CO.
 For sale in Markdale at Haskett Bro's Hardware Store. 385-421

Newspaper Law.
 The following is a resume of the laws in force regarding the receiving of newspapers.

1. Subscribers who do not give express notice to the contrary are considered as wishing to continue their subscription.
 2. If the subscribers order the discontinuation of their periodicals the publisher may continue sending them until all arrears are paid up.
 3. If subscribers neglect or refuse to take their periodicals from the office to which they are directed they are held responsible until they have settled their bill and ordered them discontinued.
 4. If subscribers move to other places and fail to inform the publisher, and the papers are sent to the former direction, they are held responsible.
 5. The courts have decided that refusing to take periodicals from the office, or removing and leaving them uncollected for, is prima facie evidence of intentional fraud.
 6. If subscribers pay in advance they are bound to give notice to the publisher at the end of their time, if they do not wish to continue taking it; otherwise the publisher is authorized to send it on and the subscriber is responsible until express notice, with payment of all arrears, is sent direct to the publisher.
- The latest postal laws are such that newspaper publishers can arrest anyone for fraud who takes a paper and refuses to pay for it. Under the law the man who allows his subscription to run along for some time unpaid, and then orders it discontinued, or orders the postmaster to mark it "Refused" and have a postal card sent notifying the publisher, lays himself liable to arrest and fine, same as for theft.

The Markdale Standard
 Is issued every Thursday, by
 C. W. RUTLEDGE, Markdale, O. C.
 TERMS—\$1 per year in advance; \$1.50 not paid within six months.
 Professional and business cards one inch space and under, per year, \$4.
 1 in. 6 mo. 3 mo. 3 mo.
 Half column \$50 00 \$27 50 \$15 00
 Quarter column 27 00 15 00 10 00
 Two inch space 7 00 4 00
 Three inch space 10 00 5 00
 Casual advertisements 8 cents per line first insertion, 3 cents per line each subsequent insertion, nonpareil 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 \$1. No paper discontinued until all arrears 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.

Directory.
 MARKDALE VILLAGE OFFICIALS.
 Police Trustees—W. J. McFarland, Dr. Sproule, G. S. Bowes.
 Public School Trustees—Wm. Lucas, J. Lyons, W. A. Brown, W. A. Brown, Sec.
 COUNTY OFFICIALS.
 Judge, H. McPherson, Owen Sound.
 Deputy Judge, S. J. Lane, Owen Sound.
 Sheriff, C. H. Moore, Owen Sound.
 Clerk of Peace, W. Armstrong, O. Sound.
 Clerk, John Gaie, Owen Sound.
 Treasurer, S. J. Parker, Owen Sound.
 County Warden, John Clark, North Keppel.
 Registrar, M. R. McKnight, Owen Sound.
 S. Thos. Lander, Durham.
 Revising Barrister, North, Judge McPherson, Owen Sound.
 Revising Barrister, South & East, Judge Lane, Owen Sound.
 M. P., North, Jas. Masson, Owen Sound.
 M. P., East, T. S. Sproule, M. D., Markdale.
 M. P., South, Geo. Landerkin, M. D., Havelock.
 DIVISION COURT CLERKS.
 No. 1. John Stephens, Owen Sound.
 " 2. David Jackson, Durham.
 " 3. Thos. Plunkett, Meaford.
 " 4. Thos. J. Borke, Heston.
 " 5. J. W. Armstrong, Flesherston.
 " 6. John McDonald, Chatsworth.
 " 7. Duncan Campbell.
 " 8. Wm. Brown, Markdale.

Society Directory.
 Markdale C. O. O. F. No. 78, meets every alternate Monday evening at 8 o'clock in their Hall, Rae's block. Visiting brethren welcome.
 Markdale A. O. U. W. No. 141 meets in their Hall, Rae's block, every alternate Monday evening at 8 o'clock. A visit from brethren of neighboring lodges solicited.
 MARKDALE L. O. L. No. 1045 meets in their Hall on Friday on or before full moon each month. J. H. Carson, Master; W. J. Blakey, Secretary.
 Victoria R. B. Preceptory, No. 282, Meets in Lodge Room of Markdale L. O. L. No. 1045, first Friday in each month. Visiting Sir Knights always welcome. Jas. Brodie W. P.; Thos. Elliott, Registrar.

I. O. G. T.
 JUBILEE LODGE, No. 128, meets every Tuesday in Haskett's Hall, Markdale, at 7:30. W. Jackson, W. C. Alfred Moffat, Sec.

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. H., going North, 11:40 a. m. and 7 p. m. South, 3:30 p. m. and 7 p. m.

TRAVERTON and LAURISTON.
 Tuesday, Thursday and Saturday 12:30 noon.

HARKAWAY.
 Friday, 12:30 noon.

ENSKINE.
 Wednesday and Saturday 2 p. m.

For registered letters and money orders, fifteen minutes earlier than above. The P. O. will be open on Holidays from 9 to 9:30 a. m., and half an hour after mails arrive.
 W. J. McFarland, P. M.

Markdale Church Directory.
PRESBYTERIAN CHURCH.
 Services every Sabbath at 10:30 a. m. Sabbath School, at 2:30 p. m. Prayer Meeting every Wednesday evening at 8 o'clock. Rev. A. Wilson, Pastor; A. 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 8 to 9. Rev. Geo. Buggin Pastor; G. S. Bowes, S. S. Superintendent. Ladies' Aid in connection. Mrs. T. Hill, Secretary.
 Strangers and visitors always welcome. Parties desiring sittings will apply to G. W. Rutledge, Pew Steward.

Ma
 EIGHTH YEAR.—No
 SEEDS.
 SEEDS
 REMEMBER
FARMERS
 I can supply you with
 your
 Clover Seed,
 Turnip & Mangel,
 Garden & other Seeds
 cheaper than any other
 dealer in Markdale.

This being the first year I could handle Seeds, you can depend on them being good and fresh.
 Call and see for yourselves.

R. H. Benson

Intending Purchase
 OF:
WATCHES, CLOCK, JEWELRY, SILVERWARE, SPECTACLES &c.,
 Will do well to call at headquarters, viz: RUSSELL'S, North St., Flesherston, where you can get the only complete stock of watches of country, and at prices lower than elsewhere. Fine Swiss Watches we are now running at \$5.50.
 Fine Waltham and American watches up bearing warrants to five years. We keep stock of all repaired properly.
 We are now running off watches and Bargins from 15 to 25 other dealers in this town at 50 cents to \$3.50, for same quality as those that we have had at prices that are well known. Call at once if you are interested. The only place to get these bargains is at RUSSELL'S, Flesherston.
RUSSELL'S