

John Macdonald & Co.

TO THE TRADE: Our Valuable... Sheetings and Pillow Cottons... Bleached Sheetings 8-4, 9-4, 10-4, 11-4, 12-4, 13-4, 14-4, 15-4, 16-4, 17-4, 18-4, 19-4, 20-4, 21-4, 22-4, 23-4, 24-4, 25-4, 26-4, 27-4, 28-4, 29-4, 30-4, 31-4, 32-4, 33-4, 34-4, 35-4, 36-4, 37-4, 38-4, 39-4, 40-4, 41-4, 42-4, 43-4, 44-4, 45-4, 46-4, 47-4, 48-4, 49-4, 50-4, 51-4, 52-4, 53-4, 54-4, 55-4, 56-4, 57-4, 58-4, 59-4, 60-4, 61-4, 62-4, 63-4, 64-4, 65-4, 66-4, 67-4, 68-4, 69-4, 70-4, 71-4, 72-4, 73-4, 74-4, 75-4, 76-4, 77-4, 78-4, 79-4, 80-4, 81-4, 82-4, 83-4, 84-4, 85-4, 86-4, 87-4, 88-4, 89-4, 90-4, 91-4, 92-4, 93-4, 94-4, 95-4, 96-4, 97-4, 98-4, 99-4, 100-4.

John Macdonald & Co.

Wellington and Front-streets East, Toronto.

WHENCE COMES THE COLOR.

Beautiful Hues Thrown Out by a Black and White Top. Scientists of England have been giving a great deal of serious consideration lately to the study of a mere toy which they are still unable to satisfactorily explain. It is a toy called the "artificial spectrum top," in which mere tracings of black and white are made to assume colors when in motion.

The top as now constructed consists of a revolving disc, half black and half white. On the white half are short concentric arcs of black. When the top revolves close under a bright lamp these arcs appear as gray lines, as might be expected, but as lines of color. To most eyes the effect is as follows: (1) When the revolution is such that the black line is preceded by the black half of the disc and followed by the

THE MYSTERY OF TOP.

remainder of the white. It appears red. (2) When the direction of rotation is reversed it appears blue. (3) When the lines are on the central portion of the white (as in the case of the top given in green). (4) Intermediate positions give approximately the intermediate colors of the spectrum. A few people see these colors differently, and one or two people, by no means color blind, can see no color at all. Curiously enough, a few people who are somewhat color blind can see the colors on the top very well.

Interesting News for Farmers

A cow will shrink in her milk because of lack of a supply of drinking water sooner than from any other cause, and it may be safely stated that insufficient water when the cows are in the pasture is a very frequent occurrence on farms.

The stable should be protected from flies and insects with wire screens. If this is done the animals will be more comfortable and afford a larger profit. Oats when cut in the milky stage (before the grain is ripe) make an excellent ration for horses. The nutritious matter is arrested in the stalks and both straw and grain are relished.

Nothing is gained by feeding an animal more than it should be allowed at one meal. Food that is left over is usually wasted. Give as much as will be eaten clean. This may be done by observing the animal for a few days. It is sometimes better to feed rather less than a meal than to allow too much, but it will be necessary to understand the characteristics and peculiarities of each animal to know how to feed to the best advantage.

Humus is a term applied to certain organic matter in soils. It expresses no definite product, but applies to the entire product of organic decomposition, or rather, an intermediate stage of this decomposition. This process of organic decomposition results in the production of ammonia, which combines with certain acids, and is absorbed. Thus the humus may be taken as a measure of the nitrogen in a soil.

After the sheep are sheared all the ticks on the flock will find their way in a day or two, on the unshorn lambs. This is the time the owner of the flock takes to clean them off. It is done very quickly by immersing the lambs, except their heads, in a solution of tobacco stems, made in boiling water and allowed to cool. The lambs are left in about half a minute, so that the wool will be thoroughly saturated down to the skin. If the lambs get any of the liquid in their mouth or nose it will make them sick for a few hours, but without any permanent bad effects.

Kent's WATCHES. Gold-Filled Silver. Ladies' Gentlemen's Boys'. Watch repairing receives the most skillful attention at moderate prices. 144 Yonge-street.

A PROMISING FUNGICIDE.

Copper Sulphate Solution Compared with Bordeaux Mixture and Other Preparations. It is now about three years since a strong solution of copper sulphate first came into use as a fungicide upon the bare branches of trees before the buds opened, and the results obtained from its application have been so favorable that it is recommended by nearly if not all of the spraying cauders. When used at the rate of from one ounce to fifteen or twenty-five gallons of water it destroys the mycelium of such fungi as winter upon the branches, and prevents the germination of such spores as may come in contact with it; but at this strength it will destroy the foliage, hence it cannot be used later in the season.

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WE MANUFACTURE POROUS TERRA COTTA.

An absolute protection against fire. Ornamental Terra Cotta. Frosted Brick, Drain Tiles, Doors, Sash, Blinds, Slat Work. All descriptions of Wooden Building materials.

THE RATHBUN CO.'Y.

DESERONTO, ONT. MARKETS ARE UNSETTLED.

ICE CREAM FREEZERS,

ICE TONGS, PICKS, SHREDDERS, ETC.

RICE LEWIS & SON

Corner King and Victoria-streets, Toronto.

Local Stocks a Little More Active and Strong-Wheat Active and Irregular in the West and Cables Closed Weak-Providions a Trifle Firmer-Bank Clearings at Toronto. Thursday Evening, Aug. 1. The local stock market today was more active and stronger. Postal Telegraph sold today at 88 1/2 and 84. The bank clearings at Winnipeg this week were \$917,367. Consols closing today at 107 1/8 for money and 107 3/16 for account.

WINDSOR SALT

Is the purest and best. Why not use it? Your grocer can get it. TORONTO SALT WORKS, City Agents

Bank Clearings at Toronto.

Table with columns: Date, Clearing, Balance. July 28, 908,354, \$103,292. July 29, 907,047, 467,249. July 30, 906,131, 352,565. July 31, 905,215, 237,881. Aug. 1, 904,300, 123,197.

The local money market is unchanged at 4 1/2 per cent. for call loans. At New York the general rate is 1 1/2, and at London 1 1/4 per cent. The Bank of England discount rate is unchanged at 2, and the open market rate 9-10 per cent.

Foreign Exchange.

Table with columns: Location, Rate. New York, 14 1/4. London, 110 1/8 to 10 1/2. Gold, 100 to 10 1/2.

STOCKS AND BONDS.

MUNICIPAL DEBENTURES for sale at prices to yield from 4 to 5 per cent, suitable for Trusts. Toronto Electric Light, 100 to 10 1/2. Insurance Department, 100 to 10 1/2.

Emilius Jarvis & Co.

Office 25 King-street W. - Telephone 1874.

Toronto Stock Market.

Table with columns: Stock Name, Asked, Bid. Montreal, 92 1/2 to 93. Toronto, 92 1/2 to 93. Canadian Pacific, 100 to 10 1/2.

TO RENT

Five eleven-roomed house, No. 636 Church-St. All conveniences. Being done over at the present time. Rent low.

ALEXANDER, FERCUSSON & BLAIKIE

23 Toronto-street, Toronto.

RAILWAY, 84-1-4 and 84-NORTHWEST LAND.

85 asked; Richelieu, 100 and 99-1-2, C.P.R., 54 and 52-1-4; Gas, 208-1-2 and 202.

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ICE TONGS, PICKS, SHREDDERS, ETC.

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NEW YORK STOCKS.

Table with columns: Stock Name, High, Low, Open, Close. Am. Sugar Ref. Co., 117 1/2 to 118 1/2. U.S. Steel, 100 to 10 1/2.

Canadian Products Co., Toronto.

W. H. WELLS, Manager, 89 Colborne-street. N.Y. Eggs, Potatoes, Fruit, Dried Apples, Beans, Island Hay, Grain, Fruit, etc.

Tips From Wall-Street.

The market closed at a slight reaction. Western Union was a strong feature today.

A Bicycle Lock

Will tell you that the YALE BICYCLE SPROCKET LOCK is the handsomest, most reliable and cheapest lock in the market.

Nikenhead Hardware Co.

6 Adelaide-street East. Commercial Miscellany. Cash wheat at Chicago 63-64.

WYATT & CO.

(Members Toronto Stock Exchange) Orders executed on Canadian and New York Stock Exchanges and Chicago Board of Trade.

The Canadian Mutual Loan and Investment Co.

HEAD OFFICE - 51 Yonge-street. FOUR PER CENT. allowed on deposits of \$1 and upwards.

Don Valley Pressed Bricks

Acknowledged the best in the world. A few of the contracts we have closed: HOPKINS HOTEL, TORONTO-F. H. Herbert, Architect.

HENRY A. KING & CO., Brokers

Stocks, Grain and Provisions. Private wires to all leading exchanges.

W. A. CAMPBELL

ASSIGNEE, 32 FRONT-ST. WEST THE FARMERS' MARKETS.

The receipts of country produce are limited and prices generally unchanged.

W. A. CAMPBELL

ASSIGNEE, 32 FRONT-ST. WEST TAYLOR BROTHERS

Head Office-60 Adelaide-Street East Toronto.

DR. W. H. GRADAM

198 KING-ST. WEST. Treats Chronic Diseases and gives Special Attention to Skin Diseases.

PRIVATE DISEASES AND Diseases of a Private Nature.

As Impotency, Sterility, Gonorrhoea, Syphilis, etc. (the result of youthful folly and excess) and Stricture of urethra, etc.

Office Hours-9 a.m. to 8 p.m. Sundays, 1 p.m. to 3 p.m.

Imperatrix Axminster

CARPET

Dealers who put you off with an imported Carpet are looking for your profits.

THE "IMPERATRIX"

is a Canadian-made Carpet, has the beauty of a Wilton, costs less than Brussels and is warranted for ten years.

THE TORONTO CARPET MFG. CO., LTD.

TORONTO.

BEST HARD COAL

\$4.50 PER TON FOR CASH AND IMMEDIATE DELIVERY.

ROGERS COAL

HEAD OFFICE 20 KING ST. WEST TORONTO

BORROWERS WANTING LOANS

AT LOWEST RATES SHOULD APPLY TO JOHN STARK & CO

26 Toronto-street.

PEOPLE'S COAL COMPANY.

Our Best Quality A-1 Hard, Steeve. Delivered in Bags Without Injury to Linn.

THE BEST PAPER

THE CHEAPEST

The Toronto Sunday World

For Two Dollars you can secure 52 days of solid pleasure. How, did you say? By sending in a year's subscription to THE TORONTO SUNDAY WORLD, which will cost you but the sum named.

THE ONLY PAPER PUBLISHED IN ONTARIO BETWEEN 5 P.M. SATURDAY AND 5 A.M. MONDAY.

The only paper in Ontario that gives the news of the whole world up to 10 P.M. Every Saturday.

The only paper that gives a whole page of Local Paper News.

The only Eight-Page Paper that gives the page of Home News and Stories.

The only paper that gives on Saturday Night reports of all the sporting events of the day.

The only paper that publishes on Saturday Night a review of the commercial transactions of the week.

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