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Richmond Hill.

Want Ads.

WOOD—100 cords of hard and soft green mixed wood for sale. Will deliver in Richmond Hill, Maple and King. P. JONES, Lot 80, Con 3, Vaughan, Phone Maple 2880. 26-28

FOR SALE—100 cords dry stump wood. Wm. BURNS, Phone 1860 Maple. 26-27

GREEN HARDWOOD—About 100 cords green hardwood for sale. Also a quantity of dry stump wood, sand and gravel. Parties may leave orders at the Liberal Office. C. H. JONES, Maple R. R. 2, Phone 2960. 24-27

TWO HORSES FOUND—Bay gelding aged 7 years, white blaze and star, also bay mare aged, these white, white face. Communicate with Toronto Humane Society, 197 McCaul Street, Toronto. Telephone Trinity 3218. 25-27

REWARD—For the return of an Ames Holden cord tire 30 x 3 1/2, never used, which was lost after Dec. 4, 1922. LOUIS L. NICOLS, Gormley B. R. No. 2. 27

FOR SALE—Set of team sleigh. Trench make, box with it; also 1 cutter. Apply WESLEY BOYNTON, Richmond Hill. 27

FOR SALE—Three good young sows, all in farrow. JAMES CARNEGIE, Mill Street West, Richmond Hill. 27

TENDERS WANTED—For plastering house. Apply P. C. BROWN, opposite Langstaff school. 18-19

FOR SALE—A quantity of rails, straw and manure at Thornhill. Apply E. T. STEPHENS, Ltd., 138 Victoria St., Toronto. 27

STRAYED—From Glenburn Farms, Unionville, two all black ranch steers. One a muley, about 1100 lbs. and one about 1,000 lbs., small horns and short tail. Any person seeing these steers please telephone Glenburn Farms, Unionville, and be suitably rewarded. 27

FOR SALE—Coal or wood range, high shelf and watertank. Apply LIBERAL OFFICE. 27-28

FOR SALE OR EXCHANGE—Crown Huron Range. MRS. HAROLD REID, Mill Street, Richmond Hill. 27

FOR SALE—1 Trench platform spring wagon, nearly new. MCKENZIE BROS., Willowdale. 13-14

CHOICE LOTS—Choice lots for sale at \$5 a foot up. Terms easy. GEO. ALLISON, Richmond St. 11-12

SAWS FILED—Cross cut and circular saws gummed and filed. Cutting box knives ground. In fact, if it is dull we sharpen it. Also agent for Gilson Mfg. Co., Guelph. Come in and see their 21 self sharpening steel chilled plow share. A. ANDERSON, Rear of W. Vanderburgh's shop, Richmond Hill. 10-11

NOTICE—E. Sliney is prepared to do all kinds of trucking and cutting in Richmond Hill and vicinity. Patronage solicited. Phone Richmond Hill 98. 42-43

FOR SALE—House and lot in Maple. ALFRED RUMBLE. 18-19

FOR RENT—8 Roomed house, all conveniences. Apply to A. G. SAVAGE. 20-21

Auction Sale Register

WEDNESDAY, JAN. 17—Farm stock, implements, furniture, Hay grain etc., lot 16, con. 3, Vaughan, Sherwood, the property of Lewis Clement. Sale at 12.30 o'clock sharp. Terms 10 months. Prentice & Prentice, Aucts.

WEDNESDAY, JAN. 24—Farm stock, implements etc., lot 51, con. 1, Vaughan, Elgin Mills, the property of Mrs. Wm. Nicol. Sale at 1 o'clock. Terms 9 months. Prentice & Prentice, Aucts.

Selling Cream Pays.

Selling whole milk robs the young things on the farm—often the farmer's own children, of needed milk-supply, hence many farmers are content with less ready cash secured by selling cream in order to have better and more live-stock, and consequently richer soil, which, after all, is the basis of good farming.—Prof. H. H. Dean, O. A. College, Guelph.

ALMOST A WHOLE FAMILY PERISH.

Two sisters, sole survivors of a once happy family, greeted us pleasantly, as we visited in a sunny ward at the Muskoka Free Hospital.

The mother and several other members of the family had died of consumption, and the plague had marked these two girls also for its own; but fortunately they were found in time.

One of them said: "I feel the Hospital has done me a great deal of good; everything is lovely, and I like it awful well." The other: "I have gained twelve pounds, and think I will be able to go home for good in six months."

Such is the work of the Muskoka Free Hospital for Consumptives. Thousands of grateful patients can testify to the help they have received therein. It costs a great deal of money to carry on the work. Will you help?

Contributions may be sent to Sir William Gage, 84 Spadina avenue, or George A. Reid, 223 College street, Toronto.

IT COSTS LESS

When you figure the loss of time and uncertain yield through dirty seed grain, the acreage loss by reason to your growing worse than useless weed crops, you will readily see that the purchase of a Bull Dog Wild Oat Separator will prove a good investment to you.

We are agents for every line of Farm Implements. With the Fall Season coming on, you will no doubt find you are in need of some new machinery. Let us serve you.

Your Furnace will want looking after before cold weather sets in, or it may be you are contemplating the installation of a new Furnace. We have several lines worthy of your consideration.

We can serve you in Farm Implements and Repairs, Pumps, Lightning Rods, Ladders, Furnaces and Repairs, Eave Troughing, Metal Building, Supplies and all kinds of Tinsmithing.

TEETZEL BROS. PHONE 87

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Houses and lots on Centre Street east Village.

Valuable house and lot on Richmond Street.

House and one acre on May Avenue, and house and two acres on Yonge Hurst Road, South annex.

Nice new house and lot on Oxford Street, North annex.

House and lot and small farm at Maple.

Valuable property at Elgin Mills.

Loans negotiated. Insurance effected

Yonge St., RICHMOND HILL

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LADIES' WEAR

For your very liberal patronage during the year, 1922, and especially at Christmas, we thank you, and wish you all a Very Happy New Year.

MRS NORMAN BATTY

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Phone 53

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Spades, Shovels, Forks, Building paper, Tar paper and Roofing, Harness Supplies Sweat pads, Breast strap, Hame strap, Heel chains, Curry combs and Brushes

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Star Skates

Demon	\$1.75
Bulldog	2.00
Glacier	3.25
Bob Skates	50
Sleighs	50c., 1.10, 1.75, 2.50

HORSE BLANKETS

Lined	\$4.60
Unlined	2.25

ROOFING AND SHEETINGS

Plain Paper	75c. per roll
Tar paper	\$1.10 per roll
1 Ply Lion Roofing	1.45 per roll
1 Ply Owl Roofing	1.95 per roll
2 Ply Owl Roofing	2.45 per roll
3 Ply Owl Roofing	2.95 per roll

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Vulcanizing—Done by the HAYWOOD SCIENTIFIC PROCESS. All Repairs GUARANTEED to Last Longer than the Rest of the Tire.

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All Makes { Watered and Inspected Free Repaired and Recharged.

Electric Motors, Generators, Magnetos, Etc., Repaired. Phone 109

W. A. VANDERBURGH

Importance of Keeping Machinery Properly Oiled.

The importance of keeping machinery properly oiled may be better realized when we try to compute, in dollars and cents, the annual sacrifice in machine efficiency through friction. Carelessness in lubrication may easily reduce the efficiency of a machine fully fifty per cent. At the same time the machine itself is wearing out faster, on account of the needless friction, than owing to the real work done.

The microscope reveals the fact that the surface of the most highly polished shaft ever made is as rough and untrue as a rough casting appears to the unaided eye. In practice it is not possible to make a metal surface that is absolutely smooth, incompressible, or even a true circle, hence inequalities of pressure at the bearings, grinding and tearing of the metal fibres, causing friction, producing factors of inefficiency and wear and tear. Though these faults of construction cannot be avoided, we can, in a great measure, overcome the effect in machinery, by judicious application of a lubricating agent.

The lubricant consists of minute balls or globules. These readily insinuate themselves between the faces in mutual contact forming a cushion, keeping the metals apart. Its use is not only to reduce friction, but also to carry away whatever excess of heat is generated. All liquids havenot sufficient sustaining powers to be used as efficient lubricants. Some cannot be retained between the metals; others do not cling together persistently enough. To resist the tendency of the metal to tear the lubricating film apart, these globules must have a good deal of internal strength, and must stick together well. They must also cling well to the metal, or they will be squeezed out of the bearings.

The oils and the fats are the principal lubricants. The mineral oils are thin, and so are lard, olive, and sperm oils. Castor oil, neatfoot, tallow and rape are thick. Nothing is better for high speed bearings and light spindles or shafts than sperm oil, but it is costly; for heavy bearings castor oil is superior to this, but it is also expensive.

But there is relatively little pure lubricant used in machinery, for it is usually more economical to employ a compound oil, compounded for special uses, than to use pure lubricants which, after all, are often heavily adulterated—gum, soap lime, alumina soda, and free acids have their own distinct purpose to serve in the composition of cheap oils. The chief advantage, however, pertaining to the use of compound oils is, that the objectionable qualities, of one kind of lubricant can be neutralized by mixing it with a lubricant of another kind. For instance, vegetable and fish oils are drying oils, that is, they oxidize rapidly, and cause gumming or clogging of the bearings to which they are applied, and if allowed to drop and accumulate upon dust, cotton waste, and timber are liable to develop an internal heat that will cause spontaneous combustion. Mineral oil does not oxidize, neither does animal. But mineral oils have what is termed a low flashing point; that is, they fire or ignite at a low temperature, some at 212 degrees Fah., or under. Animal oils develop fatty acids, and these corrode and pit the surface of the metal which they are used to lubricate.—Prof. John Evans, O. A. College, Guelph.

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