

The BUSY STORE

The Skating Season IS ON

Are You Ready for It?
We are Ready for You

Jazz Flannels take the lead, and you need so little. Just think—lovely shades, 58 in. wide, only \$2.50 per yard.

All-Wool Serges are always good for service. These we have in several shades to choose from. 40 in. wide, at pre-war prices—85c per yard.

How about a Cap or Scarf? We have them both for boys or girls and they are beauties.

The boy may need a Sweater—our range is complete. Our Pullovers are with rolling collar or V neck—just what they have been looking for.

Warm Mitts, Gloves and Hosiery are necessary. Our lines are complete in these and sure to please.

Special!

On Boys' Overcoats. These are in all sizes, of Heavy All-Wool Tweed, lined through out, at greatly reduced prices. If you need one don't fail to see these.

MILLER BROS.
Phone 28

Sharples Tubular Cream Separators and Singer Sewing Machines

I beg to announce that I have accepted the agency for the above machines for this district and will be pleased to receive a call from intending purchasers.

WM. HOSKIN, R. R. 4, JARVIS

The CASH HARDWARE



Prices Greatly Reduced

Granite Ware S. G.

No. 08 S. G. Tea Kettle	85c
No. 53 " Rice Boiler	85c
No. 110 " Water Pails	70c
No. 112 " Water Pails	85c
No. 114 " Dipper	25c
No. 20 " Tea Pots	60c
Round S. G. Roasting Pans	70c
All Copper No. 9 Boilers	\$3.00

Sleighs and Mitts Reduced.

E. T. CARTER

JARVIS

Phone 19

ONT.

THE FOODS OF PLANTS

Like Human Beings, They Need a Balanced Ration.

Four Plant Growth Without Nitrogen—Phosphate Also Required for Best Results—The Dieting of Plants Explained.

(Contributed by Ontario Department of Agriculture, Toronto.)

Plants, like animals, require food. Their food consists of simpler substances, but it is none the less necessary. In general farm practices we do not feed plants; but we grow them in a soil, from which and the surrounding air, we expect them to gather their food. In nearly every instance there is an abundance of food around the plant, but it is not always in a form that it can be absorbed. Sometimes there may be an abundance of some of the food constituents and very little of others. We recognize the importance of a balanced diet for man, but fail to realize that it is just as important for the plant.

The Soil Must Have Nitrogen.
Fortunately, while there are quite a number of essential parts to the balanced diet of a plant; there are only three or four that it has difficulty in getting, and, of these again there are two that are more frequently deficient than others. These are nitrogen and phosphoric acid. There is a great store of the former in the gaseous form in the air around us, as much as approximately 70,000,000 pounds over every acre of land. Yet, because the plant takes its nitrogen in a soluble form through the roots of the plant, this inert, gaseous nitrogen is of no use until it is taken into the soil and rendered available. Among other methods of getting this nitrogen into the soil, nature has provided that if we grow legumes, such as clover, peas, etc., we will get some of this nitrogen built into the plant. Then on the decay of the accumulated vegetable matter from these and other plants, the nitrogen is left in the form that is of use to plants. This means that decaying vegetable matter in the soil is the main source of nitrogen as a food for farm crops other than legumes. We may be quite sure that if the soil is low in decaying vegetable matter there will be a small amount of nitrogen. Without plenty of available nitrogen we cannot get the abundant growth of leaf and stem that is necessary; necessary, because it is in the leaf that the carbon dioxide taken from the air is built up into sugars, starch, and other compounds of like nature, and that anything that limits the size of the leaf just as surely limits the plant's ability to make and store these compounds. Nitrogen forces big leaf and stem growth, hence its great value in crop production.

The decaying vegetable matter, however, does more than furnish nitrogen; it improves the physical condition of the soil, thus making it easier to work. It increases the ability of the soil to hold water, thereby insuring better returns in dry weather, and in its decay furnishes acids which help to bring insoluble plant food into an available condition. These are strong statements to make about any constituent of the soil, but they show the importance of growing catch crops to plough down as frequently as possible in the rotation. A legume naturally is the best crop, but where this is not possible, or too expensive, grow rye, rape, or some crop that will furnish organic matter to the soil.

Phosphate Also a Necessary Food.
The element next to nitrogen in importance is phosphorus. Nitrogen can be got from the air by leguminous plants, but the phosphorus supply in the soil can be supplemented only by adding some form of manure or fertilizer. The supply in the soil is comparatively small, and is naturally held in an insoluble form, so that losses by leaching may be reduced to a minimum. So firmly is the phosphorus held, that in our study of the soils of the Province, we find that after nitrogen, no plant food constituent that may be added will give so decidedly good results as phosphorus. This is especially true when applied for the cereal grains and turnips. On fall wheat, 400 pounds of acid phosphate per acre has doubled the yield, and basic slag on heavy soils has given even better results. On soils fairly rich in vegetable matter, and thus well supplied with nitrogen, there is usually no need of supplementing the general manuring with anything but the phosphate, the exception being when fall wheat has wintered poorly and is having a hard time to make growth in a cold backward spring. Then an application of nitrate of soda at the rate of 100 to 150 pounds per acre on the poorer parts of the field will usually pay well.

Turnips have difficulty in absorbing phosphates, hence although the ground is usually well manured for this crop, it will pay to add three or four hundred pounds of acid phosphate per acre. On ground that was rich enough to grow twenty-five tons of turnips per acre we have raised the yield five tons by the use of three hundred pounds of acid phosphate per acre.

The points to be kept in mind are that while nitrogen is so valuable there is a very large supply in the air which can be got through the growing of leguminous crops, and that the phosphate, for various reasons, have a peculiar value when used to supplement good general manuring and good cultivation.—Prof. Robert Harcourt, O. A. College, Guelph.

"Water in the farm house" should come either before or just after the automobile.

Church Services

Knox Presbyterian—
REV. A. W. HARR, D. A., MINISTER
11 a.m.—"The Path of the Just."
7 p.m.—"Finding Our Brothers."
Y.P.S. Friday at 8 p.m. Subject: "Co-workers with God." Leader, Miss Read.

The Lord's Supper, Sunday, Feb. 12. Choir practice Friday at 9 p.m.

Wesley Methodist—
REV. G. SMITHERMAN, Pastor.
11 a.m.—"Wholeheartedness."
7 p.m.—"Things for an earnest man to do."
The W. M. S. meets every third Tuesday of the month. All are welcome.

Garnet Methodist—
1.30 p.m.—Sunday School
Epworth League and Prayer Meeting on Friday evening at 8 p.m.

St. Paul's Anglican—
REV. G. R. WREFORD, Rector
11 a.m.—"He was Dispersed."
7 p.m.—"There was a Great Calm."
Monday 4.30—Junior Auxiliary.
Tuesday 3 p.m.—W. A. meeting.
Friday 8 p.m.—Meeting for Prayer and Bible Study.
All are cordially invited.

Hockey Schedule

Jan. 30—Jarvis at Waterford.
Feb. 1—Hagersville at Cayuga.
Feb. 2—Port Dover at Waterford.
Feb. 6—Cayuga at Port Dover.
Feb. 7—Hagersville at Jarvis.
Feb. 9—Cayuga at Jarvis.
Feb. 10—Port Dover at Hagersville.
Feb. 13—Waterford at Port Dover.
Feb. 16—Port Dover at Cayuga.

Everybody's Column

25 words or under, 25c. per insertion. Each additional word, 1c.

For Sale—Yearling Short-horn Bull; bargain for quick sale. Also one Cullie pup. E. W. Gowan, R. R. 1, Jarvis.

For Sale—Pure-bred Tamworth pigs, both sexes, six weeks old. Apply to A. R. Smith, R. R. 3, Waterford. Phone 16-43.

For Sale—Two Tamworth brood sows, due latter part of March; also several pure-bred sows three months old. Geo. O. Miller, R. R. 4, Jarvis.

For Sale—Joseph Pontiac O'Donnell. This bull ready for service; well marked, superior in every detail. Good buy if you want a Holstein herd sire, cheap. Earl Marr, Ring 26, Jarvis.

For Sale—A year-old pure-bred Short-horn bull, winner of Diploma at Jarvis Fair; and heifers all ages, from sire by imported stock. Also set light double harness. Robt. Wilson, R. R. No. 1, Jarvis.

Men Wanted—There is always a demand for automobile and tractor mechanics and drivers. We teach you so that you can drive and repair all makes of cars and tractors. We can arrange your board. Full particulars can be had by writing St. Catharines Auto School, 12 Ontario Street, St. Catharines, Ont.

HELP WANTED

MEN and WOMEN—to sell to women in homes rubber-lined, waterproof Gingham Aprons for use in the kitchen. Can easily earn \$14 daily and more. Rapid seller and ready demand. Send 75 cents for sample apron and full particulars. Money refunded if sample returned. BRITISH RUBBER COMPANY, 232 McGill Street, MONTREAL.

Poultry Wanted

All kinds of Live Poultry Wanted to be delivered every Tuesday morning at the premises of the undersigned.

GUS WEIL, Jarvis

HARRIS' BUTCHER SHOP

Choicest Fresh and Cured Meats and Poultry

We aim to please our Customers.

All Orders promptly attended to.

THOS. HARRIS
Main St., JARVIS

The Montreal House

THE PLACE OF QUALITY.

We have a Good Assortment of the following goods at

Greatly Reduced Prices

- Ladies' Cap and Scarf Sets
- Watson's Underwear for Ladies and Children.
- Shirts and Drawers for Men and Boys.
- Sweaters and Pullovers for Ladies, Men and Boys.
- Ladies' Gloves and Mitts in Silk, Wool and Union.
- Boys' Gauntlets and Gloves.
- Men's Leather Mitts in great variety.
- Men's Mocha Gloves.
- Men's Wool Mitts (hank knit).

Fresh Groceries

J. A. BURWASH
JARVIS

School Supplies

AND ALL KINDS OF STATIONERY AT THE

Record Stationery Store

FURNITURE

You are invited to inspect our display of living, library and dining room furniture. The mere sight of it suggests what an ideal home looks like.

Come and you'll see the finest array of suites and separate pieces ever shown here. If you have a furniture need surely you can fill it satisfactorily from our exhibit.

IVAN W. HOLMES
JARVIS