

# The Waterdown Review

THE BIGGEST LITTLE PAPER IN ONTARIO

VOL. 5.

WATERDOWN, ONTARIO, THURSDAY, NOVEMBER 30, 1922

NO. 30.

## Grace Church

REV. H. J. LEAKE, M. A., Rector  
Rev. Prof. Kingston, of Trinity University, will take the services morning and evening.

Sunday School and Bible classes 10 a. m.

## Knox Church

REV. J. F. WEDDERBURN, B. A., B. D., Minister

11 a. m.—The Victory of Gideon's Band.

7 p. m.—The Ideal Christian.

Sunday School and Bible Classes at 9.45 a. m.

The Church Club meets Wednesday evening at 8 o'clock under the auspices of the Devotional Committee. There will be an interesting program.

## Methodist Church

REV. C. L. POOLE, B. D., Pastor

11 a. m.—Rev. F. R. Hendershot of Carlisle.

7 p. m.—Pastor will preach.

10 a. m. Sunday School and Bible classes.

The Y. P. S. meets on Monday evening at 8 o'clock.

Prayer Service on Thursday evening at 8 o'clock.

## Millgrove Meth. Circuit

REV. F. J. FYDELL, B. A., Pastor

Rock Chapel—11 a. m.

Glenwood—3 p. m.

Millgrove—7.30 p. m.

Rev. H. E. Walker, B. A., of Ancaster will preach at all services.

League Meeting, Rock Chapel, Wednesday evening at 8 p. m.

## For Sale

2-pair of Light Sleighs. Apply to Mrs. W. S. Featherston.

## Locals

Mr. Leo Mirault and family have moved to Port Colborne.

Mrs. A. Newell is spending a few days with her sister at Rockwood.

Mrs. Jas. McKee of Greensville is visiting her daughter, Mrs. G. H. Greene.

Mr. C. W. Drummond has been awarded certified seed in Government test for Green Mountain potatoes.

Mr. and Mrs. John Agnew of Kilbride spent Sunday with Mr. and Mrs. A. Newell and other friends in the village.

Rev. and Mrs. C. L. Poole spent the week end in St. Thomas, where Mr. Poole took the services in the Methodist Church.

The annual Xmas Entertainment of the Methodist S. S. will be held on Friday December 22nd. A good program is being arranged for.

At the Royal Winter Fair, Toronto, Dr. Hopper, A. E. Alton and J. Green were prize winners in Poultry and W. G. Horning in fruit.

J. W., R. C. and W. S. Griffin attended the funeral of their sister, Mrs. J. W. Ryan, at Toronto on Monday.

## Annual Bazaar

The Annual Bazaar of the Women's Auxiliary of Grace Church will be held in the Parish Hall on Wednesday afternoon, December 6th. Home-made baking, home-made candy, fancy work, aprons and other articles will be on sale. A special attraction will be a 25c table. Afternoon tea will be served. In the evening a good program will be given.

## Public School Tea

The pupils of the Public School are arranging for a Tea and Sale of Work to be held on Friday afternoon December 15th. All the articles for sale have been made by the Domestic Science and Manual Training classes. There will be booths for the sale of home made candy and ice cream, also a fish pond.

The proceeds will be used to defray the expenses of the different activities of the pupils during the year. Your sympathy and co-operation will be very much appreciated.

## Box Social

The Box Social which was held on Wednesday evening under the auspices of the Home Department was a decided success. Mr. C. P. McGregor acted as chairman in his able manner. Music was furnished by Dr. and Mrs. Hopper, Mrs. Drummond and Mrs. C. Galivan. Miss M. Sinclair gave a reading and Mr. C. L. Poole gave an address on Our Home. The boxes which were very artistic and pretty were auctioned off by Mr. Ellsworth Smith, the proceeds amounting to \$33.00. A most enjoyable evening was closed by singing God Save the King.

## Letter to the Editor

To the Editor.—

At the last meeting of the local branch of the G. W. V. A. the matter of my appointment as a representative of the above association to the Board of Managers of the New Hall was taken up and discussed. It was unanimously agreed that we should withdraw from representation on this Board, and in accordance with this decision I have this day forwarded my resignation to the village council.

PETER MITCHELL.

## Wanted

Respectable girl wishes position with private family. Apply at Review Office.

## VENISON

We will have a good supply of Venison on sale Saturday.

Home-made Sausage fresh every Saturday.

## Levi Shelton

### VOTERS' LIST, 1922

MUNICIPALITY OF THE Township of East Flamboro

Notice is hereby given that I have transmitted or delivered to the persons mentioned in Sec. 9 of the Ontario Voters' List Act, the copies required by said section to be transmitted or delivered of the list made pursuant to said Act of all persons appearing by the last revised Assessment Roll of the said municipality to be entitled to vote in the said municipality at elections for members of the Legislative Assembly and at Municipal Elections; and that the said list was first posted up at my office at Waterdown, on the 30th day of October 1922, and remains there for inspection.

And I hereby call upon all voters to take immediate proceedings to have any errors or omissions corrected according to law.

L. J. MULLOCK,  
Clerk of Said Municipality.

## Big Scotch Concert

A Big Scotch Concert and Box Social will be held under the auspices of Knox Church Choir in the Township Hall on Friday evening, December 8th. The MacDonald Child Entertainers of Hamilton will entertain with song, folk dances and comic selections. Also solos, duets, recitations, piano solos, etc. Dr. J. O. McGregor will be chairman, and a real good time is expected.

## Millgrove

Mr. and Mrs. Kenneth Cummins are attending the wedding of Miss Clara Vale at Sarnia.

A miscellaneous shower for Mr. and Mrs. Russell Carey was given at their home last Monday evening.

Miss Eileen Pepper visited at the home of Miss Nora Rayner last week.

James Foster is improving the appearance of his bungalow.

The Sunday School children are practicing for their Christmas entertainment.

Educational services will be held here next Sunday evening.

Mrs. Edwark Cummins is on the sick list.

## Millgrove Hunters

Six strong men of this neighborhood, Went up to hunt in our northern wood,

For the red deer there were plenty,  
Now a buck and and a doe  
Left their track in the snow,  
And their dog knew the track was scent.

So they unslashed the hound  
And the men went around  
To where his buckship should pass,  
Five men climbed a tree  
That they better might see,  
But Wallace, he hid in the grass,

As they sat on the limb,  
Their faces were grim, not a man  
Was perspiring,

When a-lack and alas,  
Wallace came from the grass,  
And ordered the men to cease firing.

Now concerning the buck,  
That they thought they'd all  
struck,

They found on a closer inspection  
While watched (well they knew)  
From a high point of view,  
The deer went another direction.

Now it's tough to stand on a lone  
deer trail,  
With the snow lying around you  
deep,

Yet Doborough stood there  
Like a polar bear,  
And they found him fast asleep.

Day after day the same hard luck,  
And at night the same old story,  
Yet you'd laugh to hear them tell  
in the store

How they'd covered themselves with  
glory.

Oh the noise they made on those  
cold bleak nights,  
May it ne'er be repeated hereafter,  
For when Downey sang,

In a low nasal twang,  
The boys all roared with laughter.

Now Andrew the scamp, was the  
cook in the camp,  
And the boys thought Andrew was  
slow,

For the puddings he'd bake,  
Were a tough antique fake,  
So the boys threw them out in the  
snow.

Yet Kenneth, and Hank and Wesley  
Pepper,  
And Also Billy McCarty,

Believe all the deer that the gang  
brought back,  
Were bought from another party.

## The 7 Cent Social

On Friday evening last the Choir of the Methodist Church under the leadership of Miss E. Dale Sinclair held a 7 cent Social which was well patronized. The admission fee was 7 cents with every seventh person free, and it cost the same to get out. About 120 people attended and enjoyed the excellent lunch provided, which was served on fourteen tables with seven at a table. The program consisted of real old time community singing which was heartily joined in by the audience led by the regular choir and a large number of the men's choir. Mrs. D. A. Hopper gave several readings. Mr. Atkins, tenor, of Burling, sang two excellent solos, and a duet with Miss Sinclair which was well received. Those who attended are satisfied that they received great value for their money and are looking forward to the next entertainment of the choir.

## Horticultural Club Elect Officers

The Horticulture Committee of the Community Club met at the home of Mr. Sawell on Tuesday evening. All the members were present. Mr. J. Connon, convenor took the chair and the following officers were elected. Rev. S. Bennetts, Reporter; A. C. Mullock, Secretary. The following appointments were also made. Mrs. Geo. Rohr to look after the old school grounds, Mrs. Walker Drummond and Mrs. W. G. Horning the Public School Grounds. Mr. J. Connon, Dundas street. Mr. S. Sawell, Mill street, and Rev. S. Bennetts, Main street, with the idea of improving and beautifying the streets and properties of Waterdown. Prizes will be given by the Society for the best lawns and gardens each year showing the greatest improvement. Look for notes on horticulture each week in the Review.

## Women's Institute

The regular monthly meeting of the Women's Institute will be held at the home of Mrs. Chas. Galivan on Wednesday afternoon, December 6th. There will be a demonstration in candy making by Mrs. C. L. Poole and Mrs. Geo. Nicholson, and a Christmas story by Mrs. Stanley Carey. Music committee, Mrs. R. J. Vance and Mrs. D. Thompson.

## Greensville

Mr. and Mrs. Gilbert Clark motored to Orangeville last Sunday.

Miss Dorothy Dunham of Hamilton is visiting her aunt, Mrs. John Tunis.

A young son has arrived at the home of Mr. and Mrs. Peter Zess.

Miss Evelyn Hore spent Sunday at her home here.

## Don't Fail to Attend

### Wilson's Auto School

442 Barton St. East, Hamilton

Best Equipped. Learn to be a **Chauffer, Garage Owner or Auto Mechanic.** Mechanical instruction \$50. Call or write.



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Carefully consider fire protection when you build or remodel your home.

Every waking and sleeping moment you and your family spend in an inflammable house you risk your lives.

Build for safety by using **Gypsum Board and Gypsum Plaster.**

Then all your partitions and ceilings will be made of material that can't burn—Gypsum.

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Added advantages of **Gypsum Board and Plaster** are their sanitary and sound-proof qualities.

Ask for the Gypsum Board booklet—it's free.

For Sale By  
**HENRY SLATER, Waterdown**

**THE WATERDOWN REVIEW**

Issued Every Thursday morning from the office, Dundas Street, Waterdown

G. H. GREENE  
Editor and Publisher  
Member C. W. N. A.



**When Buying Children's Shoes**

REMEMBER it isn't first cost that counts—it's the length of life of the shoe. The lowest-price-per-day's-wear of any shoes in Canada are—

**HURLBUT**  
Shoes for Children

**J. E. Eager Estate**

Waterdown Ontario

**THE JOY OF COMING HOME**

There's joy in coming outward,  
Though we leave upon the pier,  
With faces aglow and wistful,  
Our very dearest dear,  
And the sea shall roll between us  
For perhaps a whole round year.

There's joy in climbing mountains,  
In poking into places  
We've read about in books,  
In meeting stranger people  
With unfamiliar looks.

But the joy of joys is ours,  
Unclouded by any pain,  
When we take the home-bound steamer  
And raise the home-bound train;  
There's nothing half so pleasant  
As coming home again.

Margaret E. Sangster in Harper's Bazar.

DID AS HE WAS BID.

**How Horace Greeley Once Had a Little Fun With His Wife.**

One of the favorite resorts of Horace Greeley in the days when he was a power in New York journalism was Iona Island, a picturesque and pleasant rural paradise surrounded by the placid waters of the Hudson in the vicinity of Peekskill, N. Y.

Iona Island at that time was owned by Messrs. Grant and Hasbrouck, both of whom were personal friends of Greeley. They carried on a large vineyard, besides other agricultural operations, on the island, and it was here, doubtless, that Greeley during his frequent visits picked up many of the ideas which he afterward used in his book, "What I Know of Farming." Mr. Hasbrouck, who survived Greeley for a number of years, was an enthusiastic admirer of the famous editor and was never tired of telling stories illustrative of his shrewdness and wit. He claimed that Greeley was one of the wittiest, wisest, oddest and most original of characters, and at the same time one of the most companionable to those who had the privilege of being within the inner circle of his acquaintanceship.

The farther he got away from Printing House square the higher his spirits rose, and a drive along the winding banks of the Hudson or a trip across the water to Iona Island he always enjoyed with the enthusiasm of a boy. Nothing worried him when he was in the country. All his cares and troubles were left behind him, locked up in his desk in The Tribune office.

Mrs. Greeley was different from her noted husband in this respect. She brought her cares along with her, and she used to spend considerable time reproving Horace for his thoughtlessness and in trying to keep him within bounds. One day she kept at him until he said, "All right, mother. Whatever you tell me to do the rest of the day I'll do."

A couple of hours later Mr. and Mrs. Greeley and Mr. Hasbrouck were getting into the rowboat for their usual daily trip to Iona Island. Mrs. Greeley stepped in first, sat down and placed her parasol with the handle resting on the seat and the other end on the bottom of the boat. Then, glancing up at Mr. Greeley, who was waiting to get into the boat, she called out:

"Now, Horace, be sure to step on my parasol and break it getting into the boat!"

"All right; just as you say," responded Horace cheerfully, and down came his foot on the parasol, completely wrecking it. Mrs. Greeley looked daggers at him all the way to the island, but a happier man than Greeley was during the rest of the trip would be hard to find, and ever and anon he could be heard chuckling softly to himself as if he had just thought of a good joke.

Mr. Greeley made matters right when they got back to the Peekskill side by buying Mrs. Greeley a new parasol and handing it to her with the bantering remark:

"There, mother, is a brand new sunshade for you, much finer than the old one, and now don't you ever tell me to step on it unless you expect me to do it. I always obey the orders of my superior officer."

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**Galvanized Corrugated Iron \$3.50 per 100 square feet, freight paid**

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Fresh Cider by the glass, gallon or can. 100 gallon supplied on short notice.

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**J. S. S. Mitchell**

Teacher of Pianoforte

Phone 17-3

Waterdown Ontario

**For Sale**

Belle Oak Heater nearly new, also small size Grand Jewel Heater. Apply at Review Office.

**Found**

A pair of Glasses and case. Apply at Review Office.

**For Sale**

Pure Bred Wyandotte Cockerels Martin Strain. Phone 36-31.

**For Sale**

Young Ayrshire Cow, fresh. E. Stapley, 7th Con. East Flamboro.

**For Sale**

1 Grey Mare 9 yrs old, perfectly sound, also 1 Black Mare rising 4 yrs. would make fine driver. O. L. Miles, Phone 36 ring 4.

**For Sale or Rent**

Property on Dundas street with house and barn. Apply to R. Geddings, 193 York St., Hamilton or H. W. Park, Waterdown.

**For Sale**

1 Wood Heating Stove suitable for living or dining room, also 1 Happy Thought Range in good condition. Apply to John Mitchell Phone 17 r 3.

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**Electric Globes**

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Gauranteed 1000 Kw. hours

40 Watt 40c

60 Watt 45c

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**J. C. MEDLAR**

Issuer of Marriage Licenses  
Waterdown, Ont.

**For Sale**

Young Singing Canaries cheap. Mrs. F. Kay, Mill St., Waterdown

**For Sale**

3 Wood Stoves and 1 Coal Heater. Geo. B. Stock.

**For Sale**

20 Bred-to-lay Rock Pullets and a number of White Leghorn Cockerels (Gyles strain). Phone 32 r 4.

**For Rent**

New Building on Dundas street suitable for Drug store or any other kind of business. Apply to A. Hemingway.

**For Sale**

Victrola and 30 records good as new. Geo. Briggs, care of Roy Willis.

**For Rent**

2 good Houses by the month. Apply to W. G. Horning.

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50 acre Farm on Provincial Highway 6 miles from Hamilton. Modern 10 room brick house, electric light, bath and hot water heat, bank barn. Priced low for quick sale. Apply at Review Office.

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Cleveland Bicycles, the world's best, and other makes. Repairs and accessories.

FOR SALE—3 Motorcycles and side car. New Flashlights, Batteries and Lamps, Mouth-organs, Cartridges, Gun Cleaners, Watches. Lots of secondhand Bicycles, call and look them over.

Repairing of all kinds, Motorcycles, Bicycles, Gramophones, Cameras, Revolvers. Baby Carriages re-tired, Tools sharpened, Keys made, etc.

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We can sell you this fence as cheap as you can buy fence anywhere.

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to get your watch back when you want it repaired, but have it done promptly and at much less cost by

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# Say It with Flowers



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Family Herald and Weekly Star  
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Waterdown Review  
Both papers 1 year for \$2

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Tablets so we only make the Best.

## Canadian Beauty Washing Tablets

Are put up only in Blue Square packages  
and are absolutely guaranteed. Get your  
supply today and do away with wash-day  
drudgery forever.

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**Canadian Beauty Products**

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A. McEdwards, Freilton

## HOW TO FEED FOR MILK

Rations Must Be Well Balanced  
and Also Generous.

Special Indoor Feeding Required—  
Silage, Pulped Roots, Chopped  
Clover, Etc., Recommended—  
Feed the Cows Liberally.

(Contributed by Ontario Department of  
Agriculture, Toronto.)

Pastures may produce sufficient  
nutriment for the average producing  
cow, but the heavy producer cannot  
eat enough grass to satisfy her hun-  
ger and the demand of her milk  
producing organs. To such heavy  
producers supplementary grain mix-  
tures should be fed in quantity suf-  
ficient to satisfy the cow's hunger and  
make possible the full functioning of  
the milk secreting organs. On good  
pasture the average producing cow  
cannot make profitable use of grain  
feeds, but when on poor pastures the  
feeding of grain as a supplementary  
may be the only way by which the  
milk flow can be kept up.

Pastures Must Be Supplemented by  
Grain.

Cows producing 50 pounds of milk  
per day, testing three per cent. butter  
fat, should receive in addition to  
good pasture 8 to 10 pounds of mixed  
grain chop per day. Cows produ-  
cing 30 pounds of milk per day  
testing three per cent. butter fat  
would benefit by the addition of  
four pounds of mixed grain chop each  
day at the milking time on return  
from pasture. In some districts the  
season of flush pasture may be very  
short. If such is the case provision  
for supplementary coarse feeds must  
be made. This may be most easily  
done by providing good silage. Many  
of the more progressive dairymen  
feed silage during the entire summer  
period in quantity in keeping with  
conditions in the pasture field, in-  
creasing or decreasing the quantity  
at the demand of the cow. The grow-  
ing of soiling crops such as the oats  
and pease mixture, the growing of  
alfalfa and red clover corn, and roots  
in season are ways of keeping the  
cows working should the pasture  
fail. The cow's stomach should be  
kept well lined with feed if she is to  
be profitable as a producer of milk.  
As the grass or pasture crop dwindle,  
other feeds must be supplied or  
milk cannot be made. Many good  
feeders supplement the falling pas-  
tures in August with green fodder  
corn and second growth clover, newly  
made silage from peas and oats or  
corn may follow these. During Octo-  
ber and early November, grey-  
stone turnips and sorghum are fre-  
quently used. All these feeds go the  
same route and produce much the  
same effect on the animal body, dif-  
fering but little in degree. It is not  
so much what we feed if we would  
only feed enough and use a variety  
of feeds so that the cow can perform  
the work required of her.

Special Indoor Feeding Required.

With the closing of the autumn  
and cessation of outside feeding, re-  
constituting all indoor feeding over a  
long period, provision for which  
should have been made during the  
growing season, by way of producing  
an ample quantity of silage, clovers,  
roots, grain feeds, and straw. How  
many cows can I carry through the  
winter, is the viewpoint too frequen-  
tly taken by many dairy men. For  
profitable work this viewpoint is gen-  
erally wrong and should be turned  
about to read, how few cattle can I  
keep to eat up all the feed. Lack of  
definite knowledge as to the feed re-  
quirement per animal, and of an easy  
method of figuring this requirement,  
has caused much loss through many  
farmers trying to winter more stock  
than the feed supply in their barns  
would warrant. When cows do so  
well on June pasture, it should be  
an incentive to all feeders to imitate  
in so far as possible the succulence  
of June grasses.

Silage, Pulped Roots and Chopped  
Clover Recommended.

Well made silage is the best sub-  
stitute, with pulped roots and chopped  
clover a good second. Good red  
clover and alfalfa hays while not  
succulent are highly nutritious and  
palatable. With silage, clovers, roots  
and straw at hand, a sufficient variety  
has been provided and it is consid-  
ered good practice to give producing  
dairy cows all of these feeds that  
they will take, without waste. In  
addition to these bulky feeds one  
pound of mixed grain chop per day  
should be fed for each three pounds  
of milk produced, over and above 10  
pounds. That is a cow producing  
forty pounds of average market milk  
per day would require all the coarse  
feeds she cared to eat and ten  
pounds of mixed grain chop per day.  
The grain feed requirement can also  
be expressed as one pound of mixed  
grain chop per day for each pound  
of butter fat produced in a weekly  
period. That is if a cow were pro-  
ducing four gallons or forty pounds  
of milk per day, that tested four per  
cent butter fat, she would produce in  
seven days eleven and one-fifth  
pounds of butter fat. This would en-  
title her to eleven and one-fifth  
pounds of mixed grain per day.

Liberal Feeding is Absolutely Neces-  
sary.

Another rule that is practiced by  
the best dairymen is to feed all of a  
well balanced ration that good dairy  
cows will take without making any  
appreciable gain in weight waste in  
the way of stool. The balancing of  
ration for dairy cows is very im-  
portant, and is practiced by many  
careful, business-like dairymen and  
farmers, but unfortunately many of  
those having the responsibility of  
cow feeding use a sort of paper,  
pencil and figures, and consequently  
hesitate or neglect this very impor-  
tant item in dairy cow management.  
—L. Stevenson, Secretary Dept. of  
Agriculture, Toronto.

## PLUMBING ON THE FARM

Running Water Not a Luxury,  
But a Necessity.

Practical Hints on Home Installation  
—The Water Service Pipes—The  
Fixtures—Have a Good System of  
Drainage for Waste Water.

(Contributed by Ontario Department of  
Agriculture, Toronto.)

A plumbing system consists of  
three main parts: Water service, fix-  
tures, and waste pipes.

The Water Service Pipes.

The duty of these pipes is to con-  
vey the water from the supply to  
the fixtures. They should be galva-  
nized iron of first-class quality, and  
the size for the house is ½-inch,  
except the one that connects the hot  
water boiler to the kitchen range or  
furnace, which is ¾-inch in size.  
Pipe is bought by the foot in small  
quantities and by the 100 feet in  
large quantities, and the price for  
galvanized iron pipe at the present  
time is 10 cents per foot for the  
½-inch, and 12 cents for the ¾-inch.  
The amount required for a house is  
about 120 feet, but it varies with  
the size of the house and the layout,  
particularly the location of the bath-  
room in relation to the kitchen, also  
whether soft water is on tap as well  
as hard water. Sections of pipe are  
joined together by threaded coup-  
plings, and red lead or a special paste  
is used on the threaded parts to  
make the joints tight and preserve  
the threads from rusting and becom-  
ing permanently set. The water in  
these pipes is usually under 30 to 50  
pounds pressure, and all joints must  
be positively water-tight, particu-  
larly so if the pipes are laid under  
floors.

Test the Pipes for Leaks.

After they are installed and before  
they are covered up either under  
floors or in partitions, and before  
they are covered up for good, the  
water should be turned on under  
good pressure and a thorough test  
made for leaks, not only at the joints  
but all along the pipe line, as a  
small hole or split would cause a ser-  
ious leak.

Be sure the man operating the  
threading tool knows his job and  
does it properly. It is very essential  
that the water pipes be located safe  
from frost, and therefore it is highly  
advisable to keep them away from  
the outside wall of the house or  
stable, if possible.

It is particularly imperative to  
keep the pipes connecting the hot  
water boiler to the kitchen range or  
furnace fire box from freezing, as a  
stoppage in this line would cause a  
blow-out upon the fire being started  
in the morning, and serious loss of  
life or property would likely occur,  
and lastly it is very poor economy  
to install anything less than the  
highest quality of galvanized pipe,  
never use wrought iron pipe for  
water, galvanized always.

Plumbing Fixtures.

These comprise the kitchen sink,  
laundry tubs, bathtub, lavatory sink,  
and closet. There is a considerable  
variety in the style and quality of  
these articles, and naturally a large  
range in prices. You should insist on  
a good quality of enamel coating on  
the fixtures, this is very important.  
The standard dimension of some of  
these fixtures are as follows:—  
Kitchen sink, 20 x 30 inches. This  
sink should have a back, and one  
drain board, at least, of wood or  
enamelled iron should be provided  
for, two are better. The sink should  
be located at the most convenient  
height above the floor for the women  
using it, not too low, else undue stoop-  
ing has to be endured. A 5-foot bath-  
tub is the standard size. It should  
be placed far enough from the wall  
to make easy cleaning around it pos-  
sible. The lavatory sink may be se-  
cured in a shape either for side wall  
or corner installation. In the instal-  
lation of a closet insist on a stop-  
cock on the feed pipe to the tank,  
so that if the tank needs repairing  
the water can be turned off just be-  
low the tank. Any standard type is  
satisfactory.

The cost of a standard outfit is  
about as follows: Lavatory sink,  
complete with trimmings, \$24.50.  
Closet complete, \$35.00. Kitchen  
sink, 20 x 30 inches, with bibbs and  
trap, \$23.35. Laundry tubs, \$55.00.  
Bathtub, 4½ or 5 feet, \$66.50, or  
total of \$204.35. The cost of the  
soil pipe, water pipe and connections  
including labor for installing them  
and the fixtures is about \$195, mak-  
ing a total of about \$400.00.

A Drainage System.

This part of the plumbing system  
consists of the soil pipe or stack that  
extends from the sewer up through  
the house and out beyond the roof.  
All the wastes drain into this pipe  
and by it are carried to the sewage  
disposal system. Each fixture is con-  
nected to this main drain by a smaller  
pipe having a trap to keep bad odors  
from coming back from the sewer.  
The stack is 4-inch cast-iron pipe  
made in 5-foot sections, and the  
joints are caulked with oakum and  
lead. The other pipes are 2 inch  
and 1½ inch, either iron or lead.  
Installing this part of this work, also  
the water service pipes, is commonly  
known as "roughing in." Space will  
not permit of further treatment of  
the subject.

Write the Department of Physics,  
O. A. C., Guelph, for advice, and for  
a copy of Bulletin 267, "Farm Water  
Supply and Sewage Disposal."—  
R. R. Graham, O. A. College, Guelph.

Few gardeners realize the import-  
ance of pulverizing the soil as deeply  
as it is ploughed. No matter how per-  
fectly the surface is prepared, if the  
soil is coarse and lumpy below, the  
plants will not thrive. Large air  
spaces in the soil are a detriment,  
but a large number of very small air  
spaces in the soil are a benefit.

If you are concerned about the  
future welfare of Canada, buy a Vic-  
tory Bond and make it a sure thing.

Don't forget the future of your  
children. Lay a good foundation  
with a Victory Bond.

Would you lend a soldier \$50 if  
you knew it would save his life? Buy  
Victory Bonds and keep the military  
hospitals up.

## MAKE YOUR NITROGEN

Growing Legume Crops Will Help  
You Do It.

Clovers, Peas and Vetches Store Up  
Nitrogen From the Air—Good  
Bacteria Will Work for You—  
Determining the Need of Chem-  
ical Fertilizers.

(Contributed by Ontario Department of  
Agriculture, Toronto.)

Nitrogen costs money when pur-  
chased through the medium of the  
chemical fertilizer dealer, usually  
about twenty cents a pound. Some  
of our farmers are spending from ten  
to forty dollars per acre a year for  
nitrogen to increase crop production.  
With five million pounds of nitrogen  
floating as a gas over every acre of  
land such expenditure may not al-  
ways be justified. That nitrogen is  
highly valuable as a plant food is  
appreciated by comparatively few of  
our farmers. If those who do appre-  
ciate its value are willing to pay  
twenty cents a pound for it, and these  
are the men working on small areas  
with intensive culture crops, why  
don't those larger area farmers who  
have a few billion pounds of nitrogen  
floating above their farms wake up  
and get at least a small quantity into  
the soil of their fields?

The Fertilizing Value of Legumes.

Legume plants such as the clovers,  
peas and vetches, together with the  
bacteria that are parasitic on the  
roots of this class of plants, form a  
link between the nitrogen of the air  
and the plant food nitrogen of the  
soil. This link is an implement al-  
ways available to the farmer. A ton  
of alfalfa or clover or vetch hay may  
contain as much as fifty pounds of  
nitrogen. The roots that go with the  
alfalfa plants covering an acre may  
contain as much as three hundred  
pounds of nitrogen. The roots of the  
red clover or vetch plants that cover  
an acre may contain as much as one  
hundred and fifty pounds. The roots  
from wheat, corn or oat plants cover-  
ing an acre may contain twenty-five  
pounds of nitrogen.

The Bacteria Work for Nothing.

The point is, a great quantity of  
nitrogen is collected by the bacteria  
which alone work on the clovers,  
peas, vetches and other legume  
plants. With one million dollars' worth  
of nitrogen over every acre of land  
would it not be good policy to make  
sufficient use of legume crops and  
their parasitic soil bacteria to at least  
provide the needs of the farm in crop  
production. The nitrogen accumu-  
lated by growing legume crops is taken  
largely from the air, while the small  
quantity accumulated by corn, oats or  
wheat roots is gathered from the soil.

All Gain and No Loss.

There is no loss of nitrogen in  
growing legumes but considerable  
gain. There is a distinct loss with  
all other classes of farm crops. Plan  
to use clovers, peas and vetches and  
thereby tap the fertility supply now  
resting above your land for future  
use in the soil of your fields. If you  
can figure out a rotation to suit your  
own special needs and have legume  
crops growing two years out of four  
there will be little used to worry  
about the nitrogen supply.—L. Stev-  
enson, Secretary Department of Agri-  
culture, Toronto.



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## FEEDING YOUNG PIGS

### Practical Hints or Dealing With the Junior Hog.

Begin With the Mother—Wean When Eight Weeks Old—A Good Ration Suggested — Winter Feeding and Quarters.

(Contributed by Ontario Department of Agriculture, Toronto.)

Liberal feeding on a well-balanced ration suited to the needs of the sow previous to the birth of the young is very essential if the little pigs are to be worth rearing and the sow in condition to supply ample milk for them. With the sow well nourished and given opportunity for exercise, she is the best equipped individual to undertake the task of rearing a litter. After the little pigs arrive, everything should be done for their comfort and safety if they are to succeed as feeders. Clean, light pens; dry yard or grass lot; abundant sunshine and a well fed mother, usually mean success to the little pigs. When the young learn to feed at four weeks, provision should be made whereby they can feed at a small trough in an enclosure away from the sow. Small quantities of sweet skim milk in which wheat shorts have been mixed should be fed in small quantities and often, feeding a little less than the pigs will actually take. Pigs that have been feeding from the trough for two weeks or more can be weaned without a very serious setback. The longer the pigs can remain with the sow the better it is for them, but such practice is not always profitable, so it is usual to wean the pigs when they are eight weeks old. Since pigs are hunting the ground surface or rooting for morsels of food, it is good practice to encourage such by scattering plump grain on the floor of the pen or yard. This causes the pig to take the exercise necessary to thrive.

#### Treatment at Weaning Age.

When the pigs have reached the weaning age of eight weeks, they should be completely separated from the sow. It is better to remove the sow and leave the young pigs in the pen that they have been used to for a week, that their troubles may not all come at once. When the pigs have quite forgotten their mother, an ideal home for them is a colony house situated in an alfalfa, red clover, rape or blue grass pasture yard, where water, a wallow hole and shade are amply supplied. If the young pigs must be kept in the pigery, then everything should be done to provide dryness, protection from insects, a living temperature, ample room, cleanliness, comfort, sunshine and a ration suited to their needs. Green feeds should form a fair percentage of the total ration for pigs whether fed as a soiling crop or as pasture. The following mixed grain ration has proven very satisfactory: Wheat middlings 25 pounds, shorts 25 pounds, finely ground oats 50 pounds, oil cake meal 5 pounds, meat meal 3 pounds. Pigs eight weeks old will require a pound or more per day. The quantity required for each day should be set apart and soaked for twelve hours or more, using no more water than is required for the soaking process. When ready to feed use five pounds of skim milk to each pound of meal. Feed sweet skim milk until the pigs are well weaned, then change to sour skim milk and continue to use such as long as possible.

#### Handling Them at Three Months.

After the pigs are three months old, buttermilk can be used instead of skim milk with equal advantage. A change in the grain ration is also desirable at this age, and is most easily provided by adding a more fattening grain to the mixture already suggested for the eight weeks' old pig. The following is very satisfactory: Corn or barley 25 pounds, shorts 50 pounds, wheat middlings 25 pounds, finely ground oats 50 pounds, oil cake meal 8 pounds. Soaking to soften and thereby increase digestibility should be practiced. The corn or barley portions of the ration should be increased gradually after the fourth month has passed to give the pig an opportunity to fatten during the last two months of its life should it be designed for the block. If intended for breeding purposes the feeding is practically the same up to the fifth month. "The intended for breeding purpose" stock should be developed on a ration carrying more bone and muscle forming material than the standard fattening rations. More alfalfa, red clover, sweet clover, rape or blue grass should be used.

#### Winter Feeding.

The success attained at pig feeding in the winter depends to a greater extent upon the skill of the feeder than does summer feeding when weather conditions are favorable. Comfortable quarters which may be under the strawstack or in an elaborate pen, some place that is dry and will stay dry, is the first necessity. A well balanced ration suited to winter conditions in that it will supply in so far as possible something to take the place of grass and clover and "on the soil" conditions. Roots and sods are the most easily supplied substitutes. Room for exercise, and inducement to take such by scatter-

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