

# The Waterdown Review

THE BIGGEST LITTLE PAPER IN ONTARIO

VOL. 5.

WATERDOWN, ONTARIO, THURSDAY, JANUARY 11, 1923

NO. 36.

## OPENING OF THE Community and Memorial HALL

Sunday, January 14  
Memorial Services at 3 p. m.

Wednesday, January 17

Banquet and Entertainment  
Hon. F. C. Biggs Hon. Manning Doherty

## Opening Announcement

We are now prepared to serve the public with a high grade stock of Drugs, Stationery and School Supplies, Neilson's Confectionery, Cigars, Cigarettes and Tobaccos at City prices.

Nyal's Family Remedies

Neilson's Confections

The Chocolates that are different

Wilfred C. Langford. Phm. B.

Dispensing Chemist

## Henderson Sales Agency

### Business Announcement

Having opened an office in Waterdown I wish to advise the buying and selling public that I am in a position to serve your wants as to buying or selling a home, farm, garden land or vacant lots. Also to attend your wants in Fire and Automobile Insurance in the strongest companies in Canada.

I have for immediate sale several good farms in Wentworth County situated on Dundas Street, Millgrove, Flamoro Centre, Lake Medad and the Station Road between the two Highways. These farms are the finest farming or garden land in the Province, and the price is right, from \$100 an acre up.

Several Houses and Lots, also a few good Business Opportunities in Waterdown. Some exchanges. What have you got? Drop in, phone or write me. Will be pleased to have you list your place with me. Satisfaction guaranteed.

Phone 152

Office: Dundas Street

Waterdown

## George Edmund Baker

The funeral of George Edmund Baker took place Tuesday afternoon from his residence, 117 Barton street east, Hamilton, to Grace Church, Waterdown, for service. Rev. Dean Owen officiated. During the service the favorite hymns of the deceased were sung, "Nearer My God to Thee" and "On the Resurrection Morn." The pallbearers were: Joseph Taylor, F. Walker, Fred Warburton, George Ballard, Albert Baker and Isaac Baker. Interment took place at Grace Church Cemetery. There were many floral offerings which showed the high esteem in which deceased was held.

Mr. John McDonald, of Pilot Mound, Manitoba, who left here 40 years ago, is renewing old friendships in the village and vicinity.

## Application to Parliament

NOTICE is hereby given that the Corporation of the Township of East Flamboro intends to apply to the Legislature of the Province of Ontario at the next Session thereof for an Act of Parliament for the following purpose:

To consolidate a floating indebtedness of Twenty-five Thousand Dollars (\$25,000.00) of the said Corporation, and to authorize the Corporation to provide by By-law to be passed without submitting the same to the taxpayers authorized to vote on money by-laws, for borrowing upon the Debenture of the said Corporation said sum of Twenty-five Thousand Dollars (\$25,000.00) to pay off the present floating debt of the Corporation. The existing Debenture debt of the said Corporation is as follows:

General Debenture Indebtedness \$27,026.68.

Debentures issued for School purposes, \$77,365.75.

Debentures for Drainage (local) \$2,818.74.

The said Corporation has incurred considerable expenditure in constructing roads and bridges, and as the tax levy of the said Corporation has been very high during the last 3 or 4 years, it would be very burdensome to the taxpayers to levy a higher rate to meet said indebtedness.

BRUCE & COUNSELL,

Solicitors for the said Township of East Flamboro.

Dated at Hamilton this 11th day of January, 1923.

## Knox Church

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

11 a. m.—The Blessing of Unrealized Aims.

Evening service withdrawn on account of Memorial Hall services.

Sunday School and Bible Classes at 9:45 a. m.

The Church Club meets Tuesday evening. Place of meeting to be announced from pulpit.

## Millgrove Meth. Circuit

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

Rock Chapel—11 a. m.

Glenwood—3 p. m.

Millgrove—7:30 p. m.

Pastor's subject will be "The Church—its Workshop and its Contract."

Epworth League—Rock Chapel, Wednesday evening at 8 p. m. Missionary program.

Remember Anniversary at Glenwood, Sunday, January 21st, and Anniversary Concert on Monday night. Since James Quartette.

## Community Club's Horticultural Section

### Foundation Planting

In last week's article one of the uses of shrubs mentioned was that of foundation planting. When the lawn is comparatively small and open to the street this form of planting is perhaps one of the most useful.

A border should be laid out in front of the verandah, or if there is not a verandah, then in front of the house. Start beside the bottom of the steps, say about five feet from the house, curve the line inwards, now carry it straight till near the end of the house when another curve outward should be made, rounding the corner for about three feet, then along the side as far as is desirable. If there is a neighbor's house close the side border would likely be shaded so five or six feet is all that the border should go unless care is taken to plant shrubs that are partial to a certain amount of shade. The same treatment is then carried on at the other side of the steps.

At no point should the border be less than three feet in width, nearer four feet is better, if a double row of shrubs is desired. A double row makes a much better appearance than that of the single row. Other styles of borders, may, of course, be used as the tastes of the owner may dictate.

Twenty feet is the average length of these borders and this requires say eight plants for the back and twelve plants for the front row, and these can be bought for about 40¢ each, a low price considering the years of service that shrubs give.

After the border is laid out dig the soil deeply, pulverizing it thoroughly; place small stakes at the places where the shrubs are to be planted. The tall growing varieties should be placed in the back row from four to five feet apart, and the low growing ones in the front row, staggering the rows so that a tall shrub will be flanked in front by dwarf ones. The border can be made gay in spring by planting clumps of Narcissus and Tulips in the fall between the shrubs.

Selection of tall growing shrubs can be made from such as Hydrangeas, Paniculata and Arboresceas, Bush Honeysuckles, Mock Orange or Syringas, Forsythias or Golden Bells, Butterfly Bush, Japan Quince, Deutzias, Spiraeas, Tamarix, Snowballs, Weigelas, besides several others. The low growing varieties include Japanese Barberry, Blue Spirea, dwarf Deutzias, Spirea Anthony Waterer, Spirea Callosa in pink or white and Baby Rambler Roses, etc.

Foundation planting enhances the look of a house, giving it a much more home-like appearance and thus the value of the property is increased, something that is not overlooked by wide awake people who have their houses on the market.

## Notice! You Are Invited

To the residents of the village and district the Board of Governors of the Memorial Hall extends an invitation to ALL to their Grand Opening Ball in the Memorial Hall on Friday evening, January 19th. Gentlemen's expenses \$1. Ladies to kindly provide lunch. Music by MacBeth's Orchestra.

## Village Council Meeting

The inaugural meeting of the Village Council elect took place last Monday morning at 11 o'clock according to statutes. The Reeve and councillors each made and subscribed the declaration of qualification and took the oath of office. After the members had been pronounced a council for the year 1923, the members took their seats in the new Council Chamber. It was then moved that the council adjourn to 8 p. m. of the same day for general business.

Pursuant to adjournment the council met at 8 p. m. The Reeve and other members all present. The minutes of the previous meeting of Dec. 15, 1922 was read and adopted.

A communication was read from Mr. R. C. Griffin applying for the Collectorship of the village for 1923. One from the Sick Children's Hospital, Toronto, and one from Mr. Wm. Attridge re appointment of a High School Trustee for the years 1923 and 1924.

On motion of Councillors Crooker and Speck, Mr. P. H. Metzger was re-appointed trustee of the High School for the years 1923 and 1924.

On motion duly seconded it was decided to meet every second Friday at 8 p. m. in each and every month during 1923, except January, for general business.

A By-law was passed, after having its third reading, for appointing municipal officers for 1923, as follows. Auditors, Messrs. J. J. Green and Jacob Mount, with allowance of \$15 each. P. H. Metzger was appointed Assessor at a salary of \$85. R. C. Griffin, Collector of Taxes, salary \$85. Reeve Smith, J. J. Green and J. C. Medlar a local Board of Health with Dr. J. O. McGregor as M. O. H. and John Smiley as Sanitary Inspector. Messrs. Wellington Griffin, Joseph Tuck and Fred Allen, Fence-viewers. Mr. Geo. Potts, Bell-ringer at \$60 per year, and also caretaker of the Fire and Chemical engines at \$10.

Reeve Smith and Treasurer J. C. Medlar were appointed signing officers and to transact business with the Bank.

By-law No. 236 was also passed permitting the borrowing of money from the Royal Bank to the amount of \$12,000 for current expenses and to finance the High School until the taxes are available for 1923.

The following accounts were passed and ordered paid.

Debenture and interest re new Memorial Hall for 1922, debenture \$610.89, interest \$1132.80.

To the Clerk of the Third Division Court for attending sittings of the Court during 1922, \$44.

Expenses of Election Jan. 1st 1923, \$22.25.

Allowance for light to the W. A. A. A. at old Roller Rink to May 23, 1922, \$8.51.

To F. Speck for stove pipes, damper, etc. for Council Chamber, also for moving stoves and furniture on two occasions, \$10.

Waterdown Review for printing ballots, \$5.

### HYDRO ACCOUNTS

To H. Nicol for Hydro work and money paid for supplies, \$14.65.

On motion duly seconded the council adjourned to Friday, Feb. 9, at 8 p. m. for general business, or at the call of the Reeve.

J. C. MEDLAR,  
Village Clerk.

**THE WATERDOWN REVIEW**

Issued Every Thursday morning from the office, Dundas Street, Waterdown  
**G. H. GREENE**  
 Editor and Publisher  
 Member C. W. N. A.



**Notice to Contractors**

Separate Sealed tenders marked "Tender for Contract No. ...." will be received by the undersigned until 12 o'clock noon on Monday, February 12th, 1923, for the following work on the Provincial Highways:

Asphaltic Concrete Pavement  
 Contract No. 797—Dundas St. from Clappisons Corners to Road between Lots 15 and 16, Nelson Twp. 6 miles.

Contract No. 921—Dundas St. from Road between Lots 15 and 16, Nelson Twp. to 16 Mile Creek Bridge, 7.2 miles.

Contract No. 863—Dundas St. from end of Pavement west of Cooksville to West Limit of Toronto Twp. 5.5 miles.

Contract No. 948—Dundas St. from West Limits of Toronto Twp. to 16 Mile Creek Bridge, 4.6 miles.

Plans, specifications, information to bidder, tender forms, and tender envelopes may be obtained an and after Wednesday, January 17, 1923, at the office of the undersigned, or from G. G. Greig, Resident Engineer Waterdown.

A marked cheque for \$1,000.00 payable to the Minister of Public Works and Highways, Ontario, or a Guaranty Company's bid bond for a similar amount must be attached to each tender. A Guaranty Company's Contract Bond for 50% of the amount of the tender will be furnished by contractor when contract is signed. All bonds must be made out on Departmental forms.

The lowest or any tender not necessarily accepted.

W. A. McLEAN,  
 Deputy Minister of Highways,  
 Department of Public Highways, Ontario  
 Toronto, January 10th, 1923

**Annual Meeting**

The annual meeting of the East and West Flamboro Agricultural Societies will be held in the Baptist Chapel on Friday, January 19th, at 1 p. m. to receive the report of the past Fair and for general business. A good attendance is requested.

JOHN DWYER, President  
 JAS. A. GRAY, Sec. Treas.

**C. C. M.**

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, etc. Baby Carriages re-tired. Tools sharpened, Keys made, etc.

C. S. McCready  
 Waterdown Ontario



"The Ideal Shoe for Children"

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-wear of any shoes in Canada.

**HURLBUT**  
 Shoes for Children

J. E. Eager Estate  
 Waterdown Ontario

**Galvanized Steel Stock Troughs**

Handy Durable Sanitary.



Get My Prices and Try One

Waterstained Galvanized Corrugated Iron is all sold, but first class material 28 gauge is only

**\$6.50 per square**

**W. H. REID**

Waterdown

Ontario

**If You Want**

A hot or cold drink, light refreshments, candies, groceries, school supplies, writing pads, note paper and ink, come to

**"Our Home" Tea Room and Shop**

Fresh Supply of Oysters  
 Electric Light Bulbs

**W. G. Spence**

Phone 121  
 Mill Street Waterdown

Don't Fail to Attend

**Wilson's Auto School**

442 Barton St. East, Hamilton

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

**Notice**

There will be no charge on phone calls to Dr. Joyce at Freelon.

**For Sale**

A Good Robe. Apply to Mrs. M. Church, John street.

**For Sale**

A Grade Durham Cow, fresh. Phone 14 r 13.

**For Rent**

4 Unfurnished Rooms. Apply at Review Office.

**For Sale**

1 Two burner Electric Plate and 1 Electric Heater. Greene Bros.

**Martin Bowman**

General Insurance  
 Phone 123-J Waterdown

**Harry Hamer**

PIANO TUNER  
 86 Keith St. Hamilton  
 Orders can be left at Review

We carry the

**CONDOR Electric Globes**

Made in Holland  
 Guaranteed 1000 Kw. hours

40 Watt 40c  
 60 Watt 45c

**Greene Bros.**

Waterdown Ontario

**J. C. MEDLAR**

Issuer of Marriage Licenses  
 Waterdown, Ont.

**For Sale**

Covered Cutter in good condition. Apply to Mrs. J. Prudham.

**For Rent**

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

**For Rent**

Cood House by the month. Apply to W. G. Horning.

**For Sale**

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.

**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 Ayrshir Cow fresh. 2 Heifers 2 year old. 8 Young Pigs 8 weeks old. Apply to Diack, 7th Con. East Flamboro.

**For Sale**

Young Holstein Cow, fresh. J. Bradt, Flamboro Centre. Phone 14 ring 5.

**For Rent**

Cottage on Main street. Apply to Robt. Spence.

FOR SALE—Two seated Cutter, only used a few times. Also single seated Sleigh, in good condition. Robt. Spence, Main street.

FOR SALE—Good Fresh Milch Cow, grade Durham. Horning Bros. Waterdown.

FOR SALE—Young Jersey Cow, fresh. Apply to W. R. Platt, Waterdown.

**Hay For Sale**

Quantity of Mixed Hay, mostly timothy. Apply Post-office Box 2, or phone 36 r 3.

**For Sale**

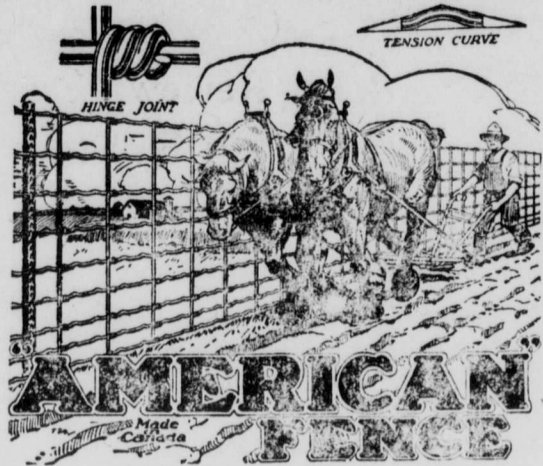
2 pair of Light Sleighs. Apply to Mrs. W. S. Featherston.

**All Kinds**

Of No. 1 Wood and Coal for Sale  
 At Reasonable Prices

**H. SLATER**

Waterdown Ontario



GUARANTEES YOU REAL VALUE

That's why we sell it instead of other makes. It's of the highest quality—in wire, galvanizing and workmanship—and is made by THE CANADIAN STEEL & WIRE COMPANY, LTD., HAMILTON, ONT., who guarantee it.

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

**ARTHUR SINCLAIR**

Waterdown, Ontario

**Wanted**

To warn the public against trifling with old wood shingles, but protect your barn and dwelling with a material capable of a fire resisting power of from 18 to 20 minutes. Sold in packages or applied. Call or write for prices and free estimates.

H. W. PARK

Waterdown Opposite Post Office, Waterdown

**Don't Wait For Weeks**

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

**Nelson Zimmerman**

"The Fine Watch Specialist"

**C. W. DRUMMOND**

Agent for the

**Gray-Dort Motor Cars**

WATERDOWN, ONT.

**A. C. SINCLAIR**

AGENT FOR

Massey-Harris Farm Implements  
 O. K. Potato Planters and Diggers  
 Louden Stable Equipment

A Good Stock of Repairs Always on Hand

Phone 186

Waterdown

**A. Featherston**

**Groceries and Confectionery**

Agent for City Laundry  
 and Wah Lee Laundry

Waterdown

Ontario


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

GREENE BROS.  
Electric Supplies

Phone 146

Waterdown

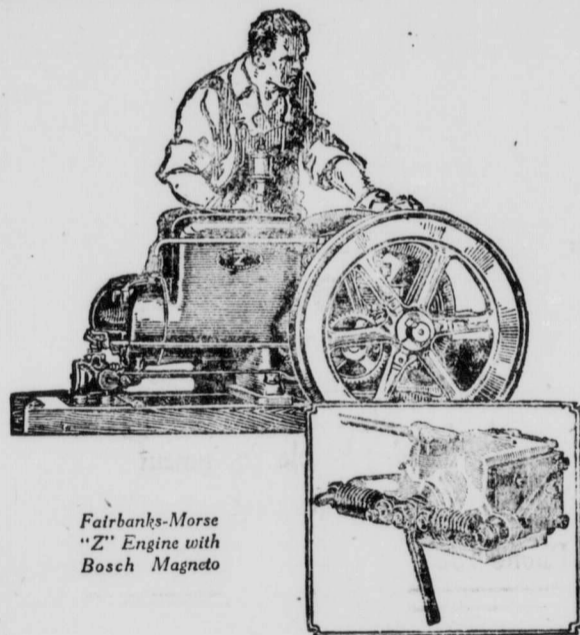
**WET FEET**  
Often Cause Colds, Coughs, Tonsillitis and Sore Throat  
**WAMPOLE'S PARAFORMIC THROAT LOZENGES**  
will prevent and stop the progress of these disorders  
In all septic conditions of the mouth and throat these lozenges are markedly beneficial because their antiseptic qualities quickly destroy the harmful germs and relieve that grippy, stuffed-up feeling.  
**PRICE 25c**



**Cold-Catching Weather**  
When blizzards whip the sleet and snow across your face—when chilly moisture bites through your warmest clothes—then you should have a box of Wampole's Formid Throat Ease to prevent Coughs, Colds, and Sore Throat.  
**Formid Throat Ease**  
These pleasant-tasting pastilles are a great help to the voice if husky from overstrain, smoking, or mouth breathing when sleeping. Also will allow the decreasing throat irritation so common with many people after retreating.  
Two Sizes, 10c. and 25c.



**Fairbanks-Morse "Z" Engine with Bosch Magneto**



**The Greatest Combination**

WHEN the full meaning of this "Z" message is realized—mighty few farmers in this community will fail to at once call on us. This example of master engineering—must be seen. Type and pictures can but suggest this value establishing achievement. This one possible betterment—Bosch high tension, oscillating magneto—completes a rare engine service, fully maintained by us in co-operation with a nearby Bosch service station.

**THE CORN EAR-WORM**

Most Destructive Enemy of the Corn Crop.

The Mother Moth Lays Eggs During June, July and August—Egg to Moth Cycle About Forty Days—Deep Fall Ploughing Advocated—Horse's Efficiency Depends on Rations.

(Contributed by Ontario Department of Agriculture, Toronto.)

The moths responsible for the erg laying that produces so many destructive worms appear in June and deposit their eggs on various food plants during June, July and August. The female moths that are attracted to corn lay their eggs on the silks. The eggs are small yellow circular flattened discs, that hatch three or four days after being deposited. The young worms feed on the silk for a day or two and then work down into the interior of the husk tips, where they continue to feed on the silks and tender kernels at the tip of the ear, gradually working downward as they grow to maturity. When fully developed the larva worms leave the ear and the silk, going down about four inches to pupate. Two weeks after entering the soil the transformation is completed, the worm that went down comes up as a moth.

Egg and Moth Cycle Covers Forty Days.

The life cycle, egg to moth, is completed in about forty days. The worm that attacks the corn silks is the same breed of the season. The moths are strong fliers, and may go considerable distance from their birthplace in search of new fields. No satisfactory method of destroying the corn ear-worm has been devised. Deep fall ploughing to destroy the last brood of the season is in part successful. If all land owners would plough a general clean up and deep ploughing of all lands in the autumn this pest would be reduced considerably. With many neglected areas scattered through the corn growing sections this insect's presence will be felt for some time.

Date of Planting a Factor in Control.

The date of corn planting is a factor of importance in escaping Ear-worm injury, with the probable date of the second brood of moths emergence, being known with fair accuracy, the planting may be done at a time to insure the corn ears being developed beyond the green silk stage before the moths of the second brood appear. The early planted corn has suffered less injury than the late.

Deep Autumn Ploughing Recommended.

Deep autumn ploughing of all land not in crop, the cleaning up of all materials that gather about the base of the corn, and the ploughing varieties of corn, early planting on well prepared land at dates well calculated to miss the major portion of the second brood, are ways of reducing the damage done by the corn ear-worm. (Contributed by Secretary Dept. of Agriculture, Toronto.)

Horse's Efficiency Depends on Ration.

One of the factors that materially affects the efficiency of the work horse especially in hot weather is the feed he receives and the manner in which he receives it. It is often that a horse may do a full day's work regularly throughout the summer season and yet maintain a present condition if he must be fed just well to his capacity. In order to do this and not injure his health, care and judgment must be exercised in the selection of feeds used.

The feeds best suited to form the principal components of the ration are good timothy or upland clover hay and bright, clean, sound oats. The average horse weighing 1,500 pounds will require about 20 pounds of hay and 22 to 24 pounds of oats a day.

There is a wide variation in feed requirements of different horses of the same weight however. Some do not have the capacity to consume and digest that much feed, and must be fed less even though as a result they cannot be expected to work so hard, while others will keep up and do well on a still less feed than the prescribed amount. The successful farmer or driver will study the individuality of his horses and feed accordingly.

It is a fact that are handled quietly and patiently will do much more work and keep in better condition on a given amount of feed than will horses that are abused and continually kept nervous and in fear of the driver.

The ration given above can be improved upon by using one feed per day of good, bright, clean alfalfa or clover hay, or by substituting bran for about 15 to 20 per cent. of the oats used. The grain feed should be replaced by a bran masa or feed of boiled barley or boiled oats on Saturday evening. The daily grain allowance should be reduced by about one-fourth on Sunday. Corn can be used in place of oats to constitute one half of the grain ration,

though straight oats is conducive to slightly more satisfactory results over a long period of time.

The heavy feed of hay should of course be given at night, while the heavy feed of grain may be given at noon. Watering both before and after feeding grain is the most satisfactory method. Work horses should also have an opportunity to eat all the salt they care for.—W. H. Peters, chief of the Division of Animal Husbandry, University of Minnesota.

The efficiency of the hog is determined by his ability to make a maximum gain on the minimum amount of feed. To do this the young pig must be kept thrifty.

Farm Trespassers Scored.

Mrs. Bess Wilson, editor of the Redwood, Minn., Gazette, very properly censures town people who drive through country districts and raid the farmer of his tame and wild fruit and other products. "Everything that grows on a farmer's farm belongs to that farmer," is the way the Gazette puts it. "To take even wild fruit without his permission is as much a misdemeanor as to take his corn, potatoes or chickens."

Improving the Sink.

An old wooden sink was made handier by attaching a zinc drain board. Three shallow grooves were beaten into the zinc, and it was nailed to the wooden frame with a slight incline so the water easily drained back into the sink.

Combating Field Mice.

Traps for field mice can be used only on limited areas. In the case of large tracts, recourse must be had to poisoned grain. One ounce of sulphate of strychnia dissolved by boiling in a pint of water and an equal quantity of cheap syrup added will poison half a bushel of wheat or corn. Cracked and crushed corn is better for this purpose than the uncrushed kernel. This grain should soak in the poisoned liquid several hours and then be allowed to dry. Grass growing about the base of a fruit tree encourages the presence of mice, as do also early mitching. Cover crops such as buckwheat, oats or clover may harbor mice. Snow about fruit trees should be tramped down occasionally to keep mice from working under it. These pests would be less numerous if neighboring swampy areas were drained and thorough ploughing and harrowing resorted to in cultivating crops. Hawks and owls, weasels, skunks and foxes destroy large numbers of field mice.

The free use of an effective lice powder is always in order with poultry. A dusting is very essential in raising the young of lice. White-washing is effective against vermin. Use kerosene on the roosts and in the cracks to exterminate mites.

Mustard, cross radish, lettuce, set onions and spinach are crops that can be grown in a hotbed.

Be sure that the snow is well tramped about the apple and plum trees. This will discourage mice from nesting near them.

Vegetable Matter.

The advantage of matter in the soil may be summed up as follows: it affords aeration, retains moisture, prevents baking, provides conditions suitable for bacteria, aids decomposition of soil particles, supplies plant food, deepens soil layer, prevents leaching, washings and drifting. Every opportunity to return to the soil vegetable matter of any sort should be taken advantage of by all farmers having any respect for the soil of their land.

Continuous grain cropping decreases the productivity of soils. This is due largely to the reducing in quantity of the fresh vegetable matter in the soil, that is essential to chemical and bacterial action. Without chemical and bacterial action in the soil the feeding of plants would be difficult.—L. Stevenson, Toronto.

Save Shelling Peas.

Save shelling peas by using the following method: Wash, and put the unshelled peas in a stewpan. Boil ten or fifteen minutes, until thoroughly with a fork, then pour them into a colander, adding the water. Pick out the empty pods, put the peas in a strainer, and return all to the fire. Season as usual. You will have saved the sweetness from the pods and much valuable time.

Marl.

Marl is a mixture of disintegrated limestone and clay. It contains in varying proportions lime, phosphorus and potassium. There is no better fertilizer for sandy lands than peat and marl, and it is surprising that greater use is not made of this material on many farms. Small marl beds are common over the Province of Ontario, and this material can usually be obtained for the labor of excavating. Farm labor and teams might be well employed during odd days during the summer and autumn period getting out marl for future applications. Crushed or finely divided marl can be directly applied to the land at any season of the year.—L. Stevenson.

**BEDDING FOR STABLES**

Straw, Peat Moss, Sawdust and Shavings Considered.

Straw Preferred for Many Reasons—Measuring Hay in the Mow and in the Stack—Hand-feeding Lambs—Farm Trespassers Scored.

(Contributed by Ontario Department of Agriculture, Toronto.)

The materials used for bedding domestic animals are generally straw from the grain fields, peat moss from the swamp, or shavings from the saw or planing mill. Straw is used to a greater extent than any other material, first because of its abundance; secondly because the stable offers a medium for transferring this by-product of the field to manure, and thereby facilitating its return to the land; thirdly because it is a good absorbent of liquids. Straws from oats, peas, rye, wheat and clover vary in value as a litter or bedding material. The hard rye and wheat straws, while durable to the wear of animals, is not as good an absorbent as the softer oat, barley and pea straws. Wheat straw not being highly valued as a feed finds its greatest use as a stable bedding. The nitrogen, potash and phosphorus contained in a ton of wheat or rye straw has a value at commercial fertilizer prices of \$2.25, oat straw \$2.60, and barley straw \$2.10. Straws have a further value in that the organic matter content is large, and of such a nature as to be particularly valuable in soil improvement. Peat moss is valuable as an absorbent of liquids, it is also valuable for its nitrogen content. The manure from stables where peat moss is used as bedding is generally of considerably higher value than the manure from any other source. It has one objection in that it is not as clean as straw. Sawdust and shavings, while serving the purpose as a litter or bedding material, add little value to the manure. Useful as an aid in keeping the animals clean and preventing the loss of the liquid portion of the manure, sawdust or shavings serve a good purpose; but it must be remembered that the fertility value of sawdust is low. Those who have straw should use it. Those who have neither straw or peat moss should then use the sawdust or shavings.—L. Stevenson, Sec. Dept. of Agriculture, Toronto.

MEASURING HAY.

The following simple and practical hints regarding the measuring of hay are worth noting and using:

**Tons of Hay in the Mow.**  
To find the number of tons of hay in a mow multiply the length by the breadth and then by depth of hay. This will give the number of cubic feet. Divide by 400, the resulting number will be the answer in tons. Hay varies in density due to the character of the grasses or clover from which it is made, the length of time it has been stored, the size and depth of the mow. Timothy and other grasses pack closer than clovers, shallow mows do not pack to the same density as do the deep mows, so judgment must be used in selecting a factor above or below 400 when estimating. The hay in the bottom of a mow 20 feet deep will be packed into half the space observed in a mow only 10 feet deep. If the mow is only 10 feet deep the factor used should be 600, if 20 feet deep 350 will be nearer correct. A fair average for all conditions is 400.

**Tons of Hay in a Stack.**  
To find the number of tons of hay in a stack, measure the overthrust distance of the stack and multiply by the length and breadth in feet, then divide by three. The resulting number will give the number of cubic feet. If the hay has been standing two months and the stack not over 12 feet high, divide by 600, the resulting number is the answer in tons.—L. Stevenson.

**Hand-feeding Lambs.**  
Lambs that have lost their mothers or have milkless mothers can be successfully reared by using goat or cow's milk in a rubber-nipped nursing bottle. The newly-born lamb requires a small quantity of milk at very frequent intervals. Two or three teaspoonful every hour for the first day with a gradual increase as the lamb grows older. Many make the mistake of giving a newly-born lamb all the milk it will take at two or three feeds a day. This treatment is very frequently fatal. Keeping the feeding bottle clean and sweet and using the milk from a fresh cow and feeding every hour or two until the lamb is four weeks old will generally give good results. Milk may be continued as a feed as long as the lamb will take it. Should bottle-fed lambs develop scours, this condition can be checked usually by heating the milk to boiling point and then cooling quickly. A teaspoonful of castor oil given with the milk is also an effective remedy.—L. Stevenson.

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## RUPTURE IN THE FOAL

How to Deal With Umbilical  
Scrotal Hernias.

How Rupture Is Caused—Umbilical  
Hernia Not Usually Serious—  
Treatment of Scrotal Hernia  
Essentially a Surgical Operation.

(Contributed by Ontario Department of  
Agriculture, Toronto.)

The term Hernia, or Rupture, is applied to designate a condition consisting of the protrusion of a portion of the intestine or bowel from the abdominal cavity through a normal or abnormal aperture of the abdominal wall, which protrusion shows its presence by a lump or tumor-like mass, with the skin remaining intact as a covering or enclosing sac.

**Umbilical Hernia.**

In the case of Umbilical Hernia or rupture at the navel, the condition generally appears within a few weeks after birth. It consists of the protrusion of a portion of the bowel through the navel opening in the floor of the belly, the skin remaining intact, forming a covering sac or pouch. Its presence becomes noticeable by the appearance of a round soft lump, or tumor like mass at the navel. Should doubt exist as to whether the condition is actually one of rupture, its true nature can be readily determined by placing the foal on its back and by pressing and manipulating the lump with the hand. It will be found that the bowel can be returned to the abdomen, leaving a somewhat loose pouch of skin, and the aperture by which the bowel protruded can be felt as an oblong or ring like opening, thus distinguishing it from any other swelling. As soon, however, as the foal is allowed to regain its feet, the bowel once more protrudes into the sac of skin and the lump or tumor like mass again appears at the navel. The size of the rupture varies from that of an egg to a large-sized ball.

**Treatment.**—As a rule, rupture at the navel in foals is not a serious condition, except when of large size. Those of small size tend to disappear in a large number of cases with growth and development of the animal. Recovery can be assisted by means of a truss or supporting bandage. The foal should first be placed on its back, and the lump or tumor manipulated with the hand to return the protruding bowel into the abdomen. To prevent the bowel from again escaping, a pad or small cushion is placed over the navel opening and retained in position by a truss or supporting bandage, such as a leather band or canvas girth encircling the body, fastened up over the back, and prevented from slipping forward or backward by means of a breast band and breech band. The only objection to the use of a truss or bandage is, that it may chafe the skin if not properly applied. In the case of small ruptures, a good blister applied to the skin around the navel has a good effect, as the swelling which it causes helps to close the opening and prevents the bowel from again escaping.

If the foal reaches the age of four or five months without showing any improvement, and the rupture tends to enlarge instead of decrease, it may require an operation to overcome it. The most common methods of operation are by means of wooden clamps, skewers, and ligatures. In applying these, the foal must be placed on its back, and care taken to have the bowel contents of the rupture sac returned to the abdomen. The skin forming the pouch or sac should then be grasped by the hand and drawn out as far as possible from the body, and the clamps or ligature fixed tightly and securely over the skin, close up against the navel ring or opening. The clamps or ligatures are then allowed to remain in position until they slough and fall off together with the imprisoned skin and tissues.

**Scrotal Hernia in Colts.**

Scrotal Hernia, or rupture at the scrotum, affects male animals only, and may be present at time of birth, or appear within a few weeks thereafter. This form of rupture consists of the protrusion of a portion of the bowel into the scrotum or bag, together with the testicles. Its presence is noticeable by the increased size of the scrotum.

**Treatment.**—The treatment of Scrotal Hernia in ordinary colts consists essentially of a surgical operation, the method usually followed being castration by what is known as the covered operation, which should be undertaken only by the veterinary surgeon. As a rule colts intended for work purposes, affected with this form of rupture, should be operated on early in life, and in most cases before the animal is much over one year old, as the chances of successful results decrease with age, while, in the case of foals and yearlings, the operation is invariably successful.

In the case of pure-bred colts, valuable for breeding purposes, surgical interference is warranted only when the hernia is a source of danger to health. The best plan in such cases is to allow nature to take its course in the hope that with growth and development of the animal the hernia will become reduced.—Dr. C. D. McGilvray, President Ont. Vet. College, Guelph.

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