DRILLING MACHINES

Over 70 sisce and ctyles for drilling either deep or shallow wells in any kind of soil or rock. Mounted on wheels or on sills. With engines or horse powers Strong, eimple and durable. Any mechanic can operate them easily. Bend for catalog. WILLIAMS BROS.. THRACA. N. Y



Lump Rock Salt, \$10 for ton lots, f.o.b. Toronto Toronto Salt Works, 128 Adelaide St. E G. J. CLIFF, Manager Toronto, Ont

Farm to Rent

Acres, either grain or dairy. One west of Dereham Centre, Ont. IVORY SIMMONS, . . . MOUNT ELGIN, ONT.

FOR SALE AND WANT ADVERTISING

FOR SALE—Iron Pipe, Pulleys, Beiting, Rails, Chain, Wire Fencing, Iron Posts, etc., all sizes, very cheep. Send for int. stating what you want.—The Imperial Waste and Metal Co., Dept. F. D., Queen Street. Montreal.

A Pure Wholesome Nutritious Meal

CALFINE CALVES LAMBS COLTS PIGS



GUARANTEED **ANALYSIS**

Protein . 20 per cent. Fat . . . 8 per cent. Fibre . . 4 per cent.

Save \$15.00 to \$20.00 on Your Caif Feed

Write for Booklet and Prices CANADIAN CEREAL AND FLOUR MILLS, LIMITED Toronto, Ontario

GINSENG, grown in woods, two year old roots for sale. Seed crop, 1912. — John Tamblyn, Blyth, Ontario, R.B. No. 8.

********* POULTRY YARD

n Kasasasansasasasasasasas Types of General Purpose Fowls

M. A. Jull, Macdonald College, Que. As with the various classes of live

stock, so with poultry, are there dif-ferent breeds possessing varying types. The 1,600 pound Clydesdale does not possess the "roadster type" as found in the Thoroughbred. Cattle breeders in the Indroughbred, Cattle breeders are concerned with three types in cattle; the ideal "wedge-shaped" dairy type, the blocky beef type, and the general purpose type as evidenced in the dairy Shorthorn.

One type of sheep is being used in the production of mutton, another type is serving in the production of wool almost exclusively, while possibly a third intermediate type is being evolved for the combined production

of mutton and high-grade wool.

The extensive bacon industry has been developed through the medium of the bacen hog, the type of which is vastly different from the type of lard hog so extensively bred in the United States.

In poultry there are three distinct

and well-developed commercial types,— the egg type, the meat type and the general purpose type

TYPE OF COMMERCIAL VALUE

As far as type is concerned, in qualities of production cattle and poultry are classified the same, and it would seem that type, which de-tes a fixed combination of qualities pecially adapted to definite results, closely related to the various phases as closely related to the various phases of the live stock industry. In other words type has a commercial value; the lard hog is not adapted for the production of ideal Wiltshire sides. In poultry, the Cochin and Brahma, which are two of the best examples of

which are two of the best examples of the meat type, are not profile layers, and, on the other hand, examples of the egg type, such as Leghorns, An-conas, and Minorcas, are not well suited for meat production. The meat, egg and general purpose types are types of fouls to which nearly all commercial breeds may be referred: And the basis of breed type is "form." Poultrymen say, "Shape makes the breed." Characters which makes the breed." Characters which determine breed type are size, shape of body and general symmetry. The Plymouth Rocks, Wyandottes and Rhode Island Reds, known to fanciers as the American class, are the prinas the American class, are the principal breeds of the general purpose type in this country. The English Orpington is of the same general type, and economically belongs to the same class as the three American breeds mentioned.

A COMPARISON OF FORMS There is considerable difference in the shape of the three breeds in the illustration, the Wyandotte being the deepest of the three, the Rhode Is land Red having the least depth. The land Red having the least depth. The Wyandotte is short and deep, so much so that if the heed, tail and legs were removed the bedy of the bird would be almost spherical. The body of the Red, on the other hand, would almost shape is intermediate between the two former. There are other minor dif-ferences in form, but the type differ-ferences in form, but the type differ-ing the difference in the control of the Differences in breed type are not so important from a commercial stand-

important from a commercial stand-point as differences in class type, but, at the same time results obtained from adopting certain methods of breeding may be injurious to the established type. The preservation of the type and improvement in production are the problems of the breeder rather than the incessant changing of the type to suit the fanciers' whims and risking the destruction of a commer-

Things To Be Remembered

Do not waste the poultry manustis a highly valuable fertilizer.

Do not allow the males to run will the layers except in the breeding se

All surplus cockerels four and half months old and over should as be marketed

The table cockerel is only truly positiable when marketed before to second lot of feathers commence

A pinch of sulphur in the mask beneficial when the fowls are more

ing.

Do not adopt every new idea. Is it before applying it in general page. Overcrowding is one of the weg

and most frequent mistakes made poultrymen. Good management, of which ear

omy is an essential detail, is impertive to the best results.

Roup may be almost invariat

Roup may be almost invariage traced to dampness or undue expure to wet and cold weather, lice a want of cleanliness being contributions.

in laying out a plant the principle of the consider is economy the Locate the buildings in such control of the labor. Locate the buildings in such way that the birds can be attended and the buildings cleaned with as tle loss of time as possible.

Spade up Feeding Places

By N. E. Chapman

On most farms feed for the flock cattered about on the ground the chickens are continually fed win a small space. The surface of ground soon becomes foul with droppings of the flock. True, the

droppings of the flock. True, the shine acts as a germicide, and if space is at all aloping the washin the rain helps some, but generally spot is level and often mudd; spot is level and often mudd; spot is level and often mudd; The ground quickly becomes taminated, with the continued in ing of the flock, and if there be sick fowl the whole flock may sage come infected. This is especially with small chicks and young task The first advice eview in The first advice given in cases of eral loss is "change your feed pla It is often impossible to find and location so convenient and access

INSTEAD OF MOVING INSTEAD OF MOVING.

The spading up of the feels place once or twice per week a bring good results. It will the purify the ground. It will the exercise on the part of the fis which is always desirable. Especial is this true when the flock is costs and ground food. in yards, and green feed, so sary, is difficult to obtain. is scattered, as one spades up is ground, much will be buried so so that hens will not scratch it out at the contract of the c is scattered,

that hens will not scratch it est it will be thrown up at the next a ing with green succulent blades are greatly reliabed by the flock. Be sure to try this method eff spading up the feeding places watch results in avoiding rated diseases and improving the gas health of the flock by indusing a cise and furnishing palatable so lent feed.

Coming Events

Canadian National Exhibition. Canadam August 23 Sept. 8, 1913.
Enstern Exhibition, Sherhood
Que., Aug 30 to Sept. 6, 1913.
Canada Central Exhibition, Otto
Sept. 5-13, 1913.

Sept. 518. 1913;
Western Fair, London, Sept. 513, 1913.
Vancouver Exhibition, Vancouver B.C., August 30-Sept. 6, 1913.
Nova Scotia Provincial Exhibition, Halida, N.S., Sept. 511, 1913
Prederiteton Exhibition, Freduct, N.B., Sept. 15-20, 1913.
Ogdensburg Fair, Ogdensb

August 21, 1913 WHICH-

WEIGHING the cow night and seem impract

It is not nec daily to determine ap amount of milk a cow By weighing a month, abou WHAT. and 20th, a very clos be made of the total

But the greatest va a record does not alw knowing the productio at the end of the year daily record, a man is things that would esc if he weighed the mi times a month. A LIBERAL EDU

Through weighing will soon be observed many things which a milk-flow. When a coupound or two in her n to be observed, and t look for the cause and

For example, a man weighing the milk dail if the cows are left out there is a hard frost, or spring, they will, a down in their milk the down in their milk the probably for a number will know that if, in the cows are left out-do-leagth of time during t will give less milk than harn. He quickly obs-sults of a change of for good or bad, if weigh

********** Our Veterinary . .

WARTS ON TEATS,—We with warts on teats. Whathem without injuring the classell Co., Ont.
Cut off those with cons

and to the flat ones apparantimony once daily with until they disappear. wise to defer treatment u

ENLARGED GLANDS.—We hat has a lump around he causes her to cough at to breathe heavily. She there was someth Kindly advise what E. M., Nipissing Dist lump is an enlar robably tubercular, in othing can be done. The f diagnosis is the tubercu ied by a veterinarian. abercular the gland can y rubbing it well once a ointment made of two of iodine and iodide of mixed with two ounces ve

MRMICAL HERVIA-LINE
MRMICAL HERVIA-LINE
membrood fool which seem
membrood fool which seem
membrood to a seem

This is a rupture or hern has passed the pontaneous cure t months. The app

with a protuberar size of a baseball i presses the intestine uppening or hole your keeps it there. Keep or four weeks will a cure. The truss of arranged properly position by straps to it and running

Look For Our **Exhibits**

At the Fall Fairs which are given below. Make our booth a place to meet your friends. Certainly there will be no other exhibits that will be of such real interest to you. We are exhibiting the 20 different



known by everyone, and used by farmers throughout the country, who have proved their worth by using them.

Then there is our exhibit of

HARAB Digestive Tankage

to interest the hog raiser. This hog food is used and highly recommended by the leading breeders and the Government Experimental farms.

Every poultryman who visits these fairs owes it to himself to see our exhibit of

HARAD Poultry Foods

It comprises a really complete line of all the poultry need under many varied circumstances.

A CORDIAL INVITATION is given to all to meet and con-sult with our experts, who will be in attendance at these fairs. If you cannot attend we will be glad to mail you booklets and folders on any of the above Harab lines.

The Harris Abattoir Co., Limited TORONTO, CANADA

Dates of Fairs: LONDON, SEPT. 5th to 15th OTTAWA, SEPT. 5th to 15th TORONTO, Aug. 25rd to Sept. 8th