

Runt Pigs Can Be Prevented by Modern Swine Feeding

Attention is always better given to the selection of pigs for breeding stock in a continuous program on Ontario farms, and the selection of vigorous breeding stock under control to a considerable extent, the number of runt pigs that may be found in the litter, says Prof. R. P. Forshaw, Dept. of Animal Husbandry, Ontario Agricultural College.

Good sources of strains of sows, capable of farrowing and weaning large, even litters, should be one of the most important considerations in selecting breeding stock. The use of good rations during gestation and lactation, together with creep feeding, will bring out the inheritance in the litters and should, in the long run, serve to reduce the percentage of runt pigs and resultant losses. A high average weaning weight, rather than the odd exceptionally heavy weanling, should be the aim of swine producers, says the OAC authority.

CAN FEED AT PROFIT

The runt pig that, down through the years, has been fed at a loss can now be fed at a profit as a result of recent advances in swine feeding. When runt pigs are not primarily such as a result of disease, the use of improved nutrition in the form of highly fortified rations will bring about marked improvement in growth. The feeding of extra B vitamins and antibiotics in addition to what would normally be considered a good ration has given striking responses under both experimental and field conditions.

The B vitamin needs of the pig are usually met by good balanced rations based on Canadian grains and mixed concentrates. However, runt pigs and those which are on the borderline nutritionally will benefit from extra B vitamins. Yeast has long been recognized as a good corrective for certain digestive conditions and as a source of B vitamins. But concentrates such as dried fermentation solubles and in some cases synthetic B vitamins are

Small Motors Do The Chores

Modern equipment for aiding in many farm chores or in the home requires either small electric motors or small gas engines. Where electric current is available the small fractional horsepower motor is the logical choice.

The kind of available electric service may be a two-wire 115 Volt or a two- or three-wire 230 Volt having an alternating current of 60 cycles or 25 cycles, or it may be from a small domestic engine driven electric generating plant supplying 32 Volts of direct current. The motors used, therefore, must suit the kind of electric current and wiring which is to be used. The AC motors are of the type most generally used and most widely sold. Three popular kinds of AC motors are as follows:

CAN START MACHINE

Split phase motors are usually the least expensive to purchase. They include the single phase type that operates on two wires and are obtainable in sizes ranging from 1-20 HP to 1-3 HP. They are suitable for light duty such as may be required for a small seed cleaning machine or a washing machine. They can start a machine that requires about twice their normal running power for a short duration. An automatic switch mechanism disconnects the power from its starter windings as soon as the motor reaches its normal speed.

FITTED WITH CAPACITOR

Capacitor Start Motors cost a little more but are the best all round motor for general use. Their power ratings range from 1/4 HP to 1 HP. The motor is fitted with a capacitor, which is a condenser to absorb the extra

surge of electric current when starting a machine. It is thus able to start a load that requires three times its normal horsepower rating for a short period. Such motors are suitable for operating larger seed cleaning machines, water pumps and similar loads which require a little extra power to start them, or where the demand for power may fluctuate with a varying load of the driven machine or equipment. Motors of this type larger than 1/2 HP should operate on a three-wire 230 Volt service.

SUITABLE FOR GRINDERS

Repulsion - Induction Start Motors are used where considerable power is required to start a load or where the power requirement of a machine or equipment may fluctuate temporarily. Repulsion - Induction motors have a starting torque of about four times their normal running power. These motors will continue to operate with reduced voltage. They are suitable for large seed cleaning and grading plants, feed grinders, large pumps, air compressors, etc.

The Small Gas Engine is used where electric service cannot be used. The small air-cooled gasoline engine may be the best source of power. As a rule the horsepower rating of such an engine should be about 50 per cent greater than the power of an electric motor which might otherwise be used.

Two cycle air - cooled engines are now more reliable than they were a few years ago. Generally their normal operating speed is much higher than that of the conventional four cycle engine. Their light weight and speed makes them suitable for portable machines such as the rotary knife type of lawn mower, power chain saws, marine engines, etc. Special lubricating oils must be used

Announces Big Program Of Development In N. S.

HALIFAX (CP)—Premier Stanfield says the province hopes to get its new industrial promotion body — Nova Scotia Development Ltd. — into operation as soon as possible.

It was authorized by the legislature at the session ended last month.

Mr. Stanfield said the government has a number of offers from public subscribers for shares in the organization. However, no

money would be accepted until legislation establishing it is proclaimed.

The government has announced it will match public subscriptions at \$10 a share until \$10,000,000 in capital is available.

Nova Scotia Development Ltd., promising new or existing industries and to operate them itself if considered desirable.

The premier said "There has been enough interest on the part of the public for the government to be very encouraged."

Liberal member for Cumberland West, Allison Smith, turned over \$100 of his sessional indemnity for the first 10 shares. Mr. Stanfield

RAISE ALLOWABLE INCOMES

EDMONTON (CP)—The Alberta government has increased maximum allowable incomes for persons receiving disability and widows' pensions. It was reported Friday. The maximum was raised from \$720 a year for a married disabled person or a widowed person with dependent children. For a married disabled person the combined allowable limit was raised to \$1,380 a year from \$1,000.

150,000 HAVE FLU

TAIPEI (AP)—The first two deaths in the influenza epidemic raging in Formosa were reported Friday. As many as 150,000 flu cases were estimated in Taipei's 700,000 population.

He said some details of the development scheme have still to be worked out.

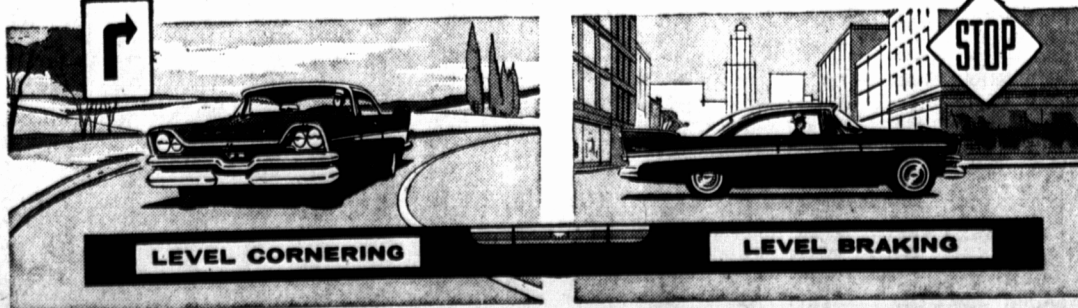
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Potato Injury Will Reduce Quality, Value, Of Product

One of the most important causes of reduced grade quality of potatoes on the Canadian market arises from mechanical handling at harvest time. Up to 70 per cent of the grade defects in potatoes reaching the consumer may be traced to mechanical injury.

Recent experiments at the Central Experimental Farm, Ottawa, showed that injury in the field during harvest could be reduced 2.5 per cent or less when potatoes were mature and equipment was operated properly. But injury may be 15-30 per cent when machinery and equipment are not carefully operated. Hauling from the field, storing and grading operations can also seriously injure the potatoes.

To keep the mechanical injury to a minimum, the following precautions are suggested:

- Operate the blade of the digger deep enough to prevent cutting the tubers.
 - Maintain tractor speed at half throttle in low gear and retain a soil cushion on the elevator chain.
 - Pad sharp places on the digger and pad the wagon or truck platform used to haul the potatoes.
 - Use picking baskets that do not damage the potatoes.
- For minimum injury the equipment should be carefully operated and the potatoes protected from rough handling and bruising. This will improve the grade quality and reduce the losses at grading time.

Many Varieties Of Fine Apples Stem From McIntosh

Johns McIntosh could hardly have predicted the future popularity of the apple which today bears his name. Nor could he have foreseen the part scientists would play in growing and marketing the McIntosh.

The seedling, which this Scottish farmer discovered in 1796 growing wild in the woods near Dundela, Ont., not only produced the McIntosh, Canada's best-known apple, but also fathered many other popular varieties. Seedlings of the McIntosh have resulted in new varieties such as the Lobo, Melba, Joyce and Hume, and the McIntosh crossed with other varieties has produced the Cortland and the Bancroft.

Although not as directly a product of chemistry as a man-made fibre such as nylon, the juicy McIntosh apple is indebted to scientific research. Apples made ugly by scab spots used to be taken for granted. Apple maggot, codling moth, aphids and leaf rollers all played a part in marking or disfiguring apples. Depending on deficiencies in the soil, the fruit could be poorly colored or lacking in size. Neither the farmer who grew them, nor the housewife who bought them, realized there was an answer to such problems.

FUNGICIDES HELP

Today, thanks to modern insecticides and fungicides, apples can be smooth, juicy and free of disease. Chemical fertilizers — nitrogen, potash and phosphorus — have become, in the hands of skilled orchardists, weapons to combat soil deficiencies and to give the apple size and color.

While scientists were battling disease, insects and questions of soil fertility, packaging specialists were studying the question of more efficient merchandising. Over the last few years they have demonstrated with increasing frequency that intelligent prepackaging of fruits and vegetables can reduce waste, lengthen storage life, cut shipping costs and stimulate consumer buying.

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Malting Barley Is In Demand

A very heavy demand has developed among prairie farmers for seed of the new malting barley, Parkland. Within three weeks of the announcement in October that this variety would be distributed, nearly 20,000 orders were received at the Cereal Seed Distribution Office in Winnipeg. Deposits accompanying orders amounted to over \$146,000. This development indicates the awareness of prairie farmers of the advantages of early use of new varieties and their confidence in the work of the plant breeders.

CAREFUL NOW.

A poultry expert says that if you talk gently to a duck it will lay more eggs. Bachelors are warned, however, that if they talk gently to a goose they may find that they are engaged.

CHANGED CAREER

Antonio Diavoli, the composer who died in 1954, was destined to be a butcher until an alert teacher encouraged his music.