



WHITE LEGHORNS at Raynor's Poultry Farm crowd around an automatic drinking fountain which is one of the modern features of the Mount Herbert establishment. Ralph Raynor has been a breeder of White Leghorns for about 15 years. He is

the only R.O.P. Breeder of White Leghorns in eastern Canada. Mr. Raynor also operates his own breeder chick hatchery and makes available his own choice breeding to stock to commercial chick hatcheries throughout the

Maritime Provinces. No content with the outstanding stock which he has built up, he has recently imported four outstanding strains of Leghorns from other parts of Canada. These are for testing purposes only.

Modern Annuals Superior To Many Older Types

In recent years hybridizers have introduced many outstanding annuals superior to older types in earliness and plant stature, as well as abundance and quality of bloom. By careful selection from a wide choice of varieties a long season of bloom may be obtained with relatively little effort.

Improvements in single petunias have been most outstanding in the "Redskin" group of Fl multifloras. The varieties Apache, Comanche, Mohawk, Paleface and Sioux cover a wide range of colors but have the same habit, vigor and flower characteristics. Comanche, the fore-runner of the group, is the most outstanding red variety. Paleface is conceded to be the most free-flowering white in existence. Other varieties of the multiflora type worthy of mention include Brilliance, Celestial Rose Improved and Crown Jewels. Among the best of the grandifloras are Balterina, Carnival, Crusader and Prima Donna. Fire Dance also appears promising.

Metal Magnets For Hardware Disease Cases

Hardware disease has always been a problem in cattle. The Canadian Veterinary Medical Association says it has been increasing in recent years. The disease is the result of cattle swallowing nails or bits of baling wire or other metal around the barn, the feed lot, or while grazing.

However, veterinarians have been helping prevent complications from this cause by having cattle swallow a magnet, which remains in the paunch where it attracts and holds the metal objects and usually prevents them from doing damage. Hardware disease may result in a loss of milk production, and can even cause the death of an animal if the metal object passes through the stomach wall into the heart or some other vital organ.

When an owner thinks that a valuable animal may possibly have hardware disease, the veterinarian can tell whether metal is present in the stomach by use of a "detector," similar in principle to a wartime mine detector. If treated in time the animal usually can be saved by an operation.

The most destructive agent of forests other than man, is forest insects and disease, which account for more than double the fire losses each year in the U.S.

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What Happens To Weeds In Winter Time

To paraphrase a line from an old song "where do weeds go in the winter time?" some knowledge of weeds and their growing habits is of help in using suitable methods to exterminate them.

Weeds are commonly classified as annuals, biennials and perennials, with winter annuals as a convenient, though not very scientific further distinction. An annual weed may be a winter annual when it starts in fall and is fortunate in its location or in a mild season; or it may be a winter annual because it is growing sufficiently far south to survive the somewhat rigorous winter on most of the North American continent.

GERMINATING WEED
An annual is a weed that germinates in the spring or early summer, grows and reproduces before winter, dying naturally when caught by autumn frosts.

Its progeny, the seed, is safely tucked away within seed coats capable of withstanding winter's adversities. The importance of

the seed is attested by its abundance as compared with other weeds. If the seed can be induced to germinate before winter, or if it can be started early enough in the spring, either frost or the preparation for spring sown crops will destroy it while young.

BIENNIAL WEEDS
Biennial weeds usually start growth early enough in the summer to provide themselves with a stout root, and a strong rosette of leaves lying on the ground to carry them through the winter and furnish reserve food for the flower stem which is quickly pushed up in the second year. A broad sheared cultivator is the best implement for eradicating them.

Perennial weeds, while reproducing by seed, maintain themselves year to year by their strong root system, which may be creeping, like those of Canada and perennial sow thistles, or short and fleshy as with docks and dandelion.

NO SIMPLE OPERATION
No simple operation in fall or spring will suffice to exterminate the average perennial. Summer fallowing and cultivation usually is quite effective. Enough should be known of the special life history of each weed to guide in the proper methods of eradicating them.

Cull Or Dump Pile Is Source Infection

Surveys conducted for several years by the Science Service Laboratory, Canada Department of Agriculture, Charlottetown, P.E.I., have shown that the cull or dump pile is the principal source of field infection with potato blight disease. Late blight can develop on sprouts of discarded tubers in these piles of discarded potatoes and spread from there to nearby fields. Many discarded tubers will be

infected with virus diseases such as mosaic, leaf roll, and spindle tuber and, because cull piles are ideal breeding places for potato insects, they are serious threats to the health of field plantings. Cull piles wherever found should be burned or sprayed with a potato top killer.

HORSE SHOES IN 200 B.C.

How long have horses been wearing shoes? It is impossible to give an accurate answer to this question, but historical records say the Greeks and the Romans made horseshoes as early as 200 B.C.

Farming Is No Longer An Uncomplicated Art

By DON LEMIEUX
A farmer is like an airplane pilot. He needs a host of ground crew personnel to help him keep his farm flying or else he will crash.

Take a look at today's farmer. The man who once practiced farming as an art has found it necessary to acquire a knowledge of many scientific subjects. Chemistry, physics, engineering, management, entomology, plant and animal sciences, economics, meteorology and others.

If it is your intention to farm consider this: Farming has become a highly complicated business. The better your knowledge of the sciences relating to agriculture, the better your chances of success as a farmer. Less than one-fifth of Canada's population produces all the food required by Canadians, plus a very considerable amount needed by populations in other countries where local agriculture cannot fill requirements.

MORE "KNOW-HOW"
Growing populations everywhere call for more and more skill and energy and ambition and "know-how" in food production.

The degree course in agriculture at a Canadian university or agricultural college may easily be the most profitable investment a young farmer can make. (Where time and costs rule out the possibility of a degree course, students may decide to enroll in diploma courses at provincial schools of agriculture. Consult your nearest professional agriculturist.)

Not many Canadians are aware of the size and scope of Canadian agriculture. In spite of Canada's rapid industrial growth in non-agricultural fields, agriculture is still the basic and the biggest Canadian industry.

It has been estimated that about 40 percent of all employed people work in agriculture or in industries or services closely connected with agriculture. Less than half of that 40 percent actually operate and work on farms. The others serve agriculture in industry, in business, in teaching and research.

There is an interesting and challenging career in agriculture for almost any intelligent young man or woman in search of an important job with a future, and with satisfying personal and financial rewards.

GRADUATES NEEDED
The Agricultural Institute of Canada states that agriculture needs hundreds of graduates each year to fill new jobs in the industrial and related fields. But the supply of agricultural college graduates falls far short of meeting the demand, year after year. Thus opportunity awaits the agricultural college graduate in many fields. And scholarships and bursaries are available at many agricultural colleges. Intelligent high school students may often solve a cost problem through such assistance.

If you enjoy farm life, and like to help others, perhaps your future lies somewhere in the wide field of agricultural education. Actually, there has never been quite enough agricultural teachers and extensionists to fill a rapidly-growing need in vocational schools and universities, and in the extension services, provided by governments, industrial and business institutions.

One of the most challenging careers in the whole field of agriculture is that of the research worker. Actually agricultural research is an infant compared to research in some other fields. Hybrid corn, rust resistant wheats, better maling barleys, faster feathering and earlier laying hens, broad breasted turkeys, early weaning of pigs—all these advances and many others are due solely to the activities of the research worker.

As Canada's farms become more completely mechanized, the agricultural and manufacturing and processing industries expand. Increasing populations and higher living standards create needs for more trained personnel in food research and processing fields.

Dairy manufacturing, chemical fertilizer, food processing, meat and poultry packing, feed manufacturing, textiles and fibre, fats and oils are all industries which have a growing need for personnel with advanced agricultural training.

MANY SERVE FARMER
Look around you and see forer disease conditions.

yourself how many business concerns are required to serve the modern Canadian farmer. At every step from farm to consumer, agricultural business men work to finance, insure, buy and sell, store and process and distribute farm products. Banks, co-operatives, wholesale and retail outlets, marketing and transportation companies are just a few of the big agricultural business concerns in need of new people with advanced training, such as may be had at Canada's agricultural colleges and universities.

The country's largest single employer of professional agriculturists is the Canada Department of Agriculture. Through Extension and other agencies it carries on research and investigation of a wide range of agricultural matters, regulates grading of farm products, helps to improve marketing methods and disseminates information.

Other federal government departments and agencies, such as Trade and Commerce, Veterans Affairs, Citizenship and Immigration, National Research Council, National Film Board and the Canadian Broadcasting Corporation, also employ agriculturally trained men and women.

Provincial departments of agriculture are set up to assist and advise farmers, and to carry out various policies and programs. Persons employed by governments are members of Federal or Provincial civil services. These services employ many specialists, including veterinary officers, in jobs requiring highly developed skill and knowledge.

Another exciting and interesting field open to experienced Canadian agriculturists is that of foreign service with international institutions and agencies, such as the Food and Agriculture Organization of United Nations, and the Colombo Plan.

The farm resources of a country need constant care and restoration if they are to be maintained for generations yet unborn. Civilization often impairs, sometimes destroys priceless resources of soil, range land, forests, lakes and streams, fish and wild life. The job of the conservation expert is to seek ways and means of repairing and pre-

Sweeping Motion For Food Hoeing

Get away from the old idea that you've got to dig halfway to China in order to weed and hoe the garden effectively. Present day culture methods teach a person that the soil should be stirred to kill weeds, and to break the soil's surface crust, but never deep enough to disturb the roots of nearby plants. The new method of surface hoe or shuffling calls for a sharp hoe blade. It is superior to cultivator teeth. The hoe should be used as a cutting tool not as a dagger.

Worms Cause Swine Losses

Swine suffer from both the lung worm and intestinal round worm. The common intestinal round worm is the one most prevalent in P.E.I., and is the cause of substantial annual loss.

The adult worm living in the intestinal tract causes irritation and damage to the intestinal wall, resulting in enteritis and unthriftiness. They also render the animal more susceptible to diarrhoeic infections by the damage done to the mucous membranes of the intestinal wall.

The immature worms migrate through the lungs, and may cause extensive damage, resulting in pneumonia or a cough in young pigs. The worms then mature in the intestines.

Well fed, healthy swine sometimes carry worm infestation without showing any marked disturbance, a fact which again points to the advisability of proper feeding management in disease prevention. However, parasites should not be tolerated. If they are not producing visible symptoms they are a constant threat and predispose the animal to other disease conditions.

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