# **News and Information** For the Busy Farmer the spring.

honored by the French Government with the Cross of the Knighthood of Agricultural Merit. The distinction comes as the result of the visit to the college last summer of a party of agricultural students and faculty from Grignon, France.

### Winter Conditions

According to current reports of agricultural representatives, winter conditions have prevailed throughout Ontario during December. The weather has been satisfactory except that the water supply is low. Poultry prices have proved disappointing generally, at the height of the marketing season. Many sideroads in all parts of the province have been impassable for motor traffic.

### Sunshine For Poultry

Hens need sunshine in their poultry ration, especially during the winter Sunshine in the feed is as important as tition is keen and the British consumer than anticipated. The average over any one of the other ingredients in a demands certain brands of food. Can- the whole province about 40 bushels quality of shell, nutritive value of eggs every effort to satisfy this market, upon fall wheat sown this year is about five and hatchability are dependent upon it. which they depend so largely. Cod liver oil or cod liver meal is the best substitute for the direct rays of the sun. Both are quite rich in the sunlight factor and available at a reasonable price. Cod liver meal also supplies liver tissue that helps to build up cold, the blood. The better poultry mashes which you buy already mixed either have cod liver oil or cod liver meal as need in their feed.

get into the milk when being drawn.

at this time to arranging implements ordinarily means.

☐ Aviation

Mechanics

□ Welding&

Battery Work

□ Auto

☐ House

shed. Cultivating and seeding imple- water always available. Supply green noticeable. ments should be left at the front, as feed when you can. they will be the ones first required in

or farmyard in Ontario. Yet it is that year. housewife and the millions more like her in Great Britain who determine, to Canada exported agricultural products and informative review of agricultural to the value of \$815,000,000, and of this production during the past year. Acthe United Kingdom. But the compe- better both in quality and quantity

## Feeding Scratch Grains

In winter when nights are long and whole was disappointing. Tobacco told thing shout the wariety of proteins hens need more of the heatthe same story. Potatoes are returned thing about the variety of proteins the same story. Potatoes are returned which are absolutely necessary to main. forming, energy-producing scratch as extra good in quality but only an which are absolutely necessary to maingrains than in summer. For the next three months about one quart of scratch grains to 12 hens or 14 pounds them secure in the knowledge that your to 10 hens should be fed. This should flock will get all the sunshine they be supplied an hour before the birds clean it up before dark. Do not feed Clipping the cows' thighs and flanks any grain in the morning as the hens is a big factor in the production of are apt to fill up on it and then will clean milk. The cleaner the cows are wait for it to digest before eating any kept the less dust and dirt is likely to mash and obtaining the egg-building materials. A high grade mash should be kept before the hens al! the time. A good half-day may well be devoted The more they eat, the more eggs it

□ Designing

Estimating

and tools properly in the implement should be hopper fed and drinking in the pail—not enough to be even

Chemistry at C. A. C., in recognition of his services to agriculture, has been formulated the Royal Winter demand is reported unusually low and the case in demand is reported unusually Government are competing for fifteen scholarships of \$100 each offered by of American and Education scholarships of \$100 each offered by of American and European production. firms whose products are made primarthe T. Eaton Company of Toronto for Relatively low prices are being offered by to sell, or intended to dispose of reason of such qualities many farmers the best papers bearing on the trip to growers and there are being offered by the sell, or intended to dispose of reason of such qualities many farmers the best papers bearing on the trip to growers and the sell, or intended to dispose of reason of such qualities many farmers to sell, or intended to dispose of reason of such qualities many farmers to sell, or intended to dispose of reason of such qualities many farmers. the best papers bearing on the trip to growers and there is a tendency for some by-product of low feeding value. Problems in growing to held their to held t and agricultural problems in general. them to hold their seed. The report In selecting a commercial ration, a other class of cattle. No intelligent Examinations of the contestants have from Toronto early this month was that feeder must use his judgment just as breeder of such stock pretends to combeen conducted in each county and abut 25 to 40 per cent. of the 1929 he does in buying other materials needthe papers of the first prize with per cent. of the 1929 he does in buying other materials needthe papers of the first prize with per cent. in the various counties will be examined at Toronto for the final awards.

| Crop or alsike and about 50 per cent of the red clover was still in the growant consideration of the red clover was still in the growant clover was still in the growant clover was still in the growant c seed is good owing in the short crop of hardy strains this year. Prices of of hardy strains this year. Prices of-fered Ontario growers for good quality

## Crop Report For Year

a large extent, the price our farmers The final crop bulletin for the year, receive for their products. In 1928 just issued, comprises an interesting total, about \$400,000,000 worth went to cording to this review, fall wheat was adian producers, therefore, must make to the acre. The increased agreage in weather conditions. Oats this year yielded but 90 per cent of an average The amount of scratch grains to feed crop. Barley, though good in quality,

> rather poor condition; hogs are fewer tein can only be obtained from the on the farms. Sheep and lambs are right combination of several different said to have done better, and are in- ingredients. creasing in numbers. Farm implements are certainly de- the following questions in order to best serving of more attention in the fall determine which ration will give him and winter months than they usually the best results: receive. The lifetime of an implement may be prolonged and the amount of in business? power required to operate it very much lessened by proper care. Most farm

average crop. Turnips are a short crop.

implements rust out rather than wear Clifford Baldwick, of Barrie, Ont., was one of the three members of the Canadian junior live stock clubs chosen needs? at the Royal Winter Fair to represent Canada at the international joint live stock judging competition in England

# CHOOSE WINTER FEED FOR STOCK CAREFULLY

Some Hints as to the Selection Feeds for Livestock During the Coming Winter.-Many Points To Bo Considered.

In deciding what to feed during the coming winter and spring months, you naturally consider first the roughages and grains that have been raised on the farm during the past year. These feeds constitute your cheapest source of seed supply and it is good economy to so plan your feeding program that you will use as much of them as possible as the basis of your ration.

However, it is equally important to remember that no combination or home raised feeds fully meets the needs of dairy cows, hogs, and poultry, and it is poor economy to feed such large quantities of home feeds that some of the nutrients they contain are wasted, while other nutrients are lacking. It is a wise farmer who realizes it is just as important to know what feeds to buy as it is to know what feeds to

In selecting the feeds needed to supplement home grains and roughages, two courses are open. If desired, one may buy several different ingredients, such as gluten feed, mill feed, etc., and work them into his ration. If a good formula is followed, the advantage of this plan over straight home feeds has been proven to be both sound

and profitable. Supplementing home feeds with ready mixed commercial rations is being done more and more. Many feeders who have followed this practice for two or three years claim that this plan is superior to attempting to mix rations at home, both from the standpoint of extra profits and eliminating the bother and labor of mixing. The matter of cost is one of the first questions to be considered. In considering such rations it is important to realize that the profit left after the feed is paid for, is the true basis to judge the economy of a ration rather than its initial cost by the hundred pounds or

Few realize what a surprisingly small increase in production is required to outweigh a seemingly big difference in the initial cost of two rations. This applies in comparing the cost of a good home mixture with a poor one as well as a home mixture with a commercial ration, or in comparing the value of different ready mixed rations. \$20.00 per ton may seem to be an enormous difference in the cost of two mash feeds for poultry. One may readily wonder whether the most costly of the two rations would produce enough extra eggs to offset the difference in cost. A hen eats in one month 3 lb. of mash which at the rate of 1c per pound is 3c. per hen per month. If the better of the two rations causes the hen to produce only one extra egg

the difference is more than offset. A flock laying 40% or 12 days a month are loafing 18 days a month If one ration cuts only one day off the 18 days of loafing it is worth \$20.00 a

This same principle applies to feeding dairy cows. Suppose you were considering two rations, the initial cost of which may vary \$10.00 a ton. If milk is worth 21/2c. per pound, 2 lbs. of milk per day more offsets this difference of \$10.00 per ton. This is one pound at a milking or about one-third of an inch

## THE DUAL PURPOSE COW

(Experimental Farms Note)

continues draggy at unchanged prices able concerns with high ideals that many Shorthorns of good beef con-Members of the party of 500 junior and with very little moving at present are striving to build products that will formation produce sufficient milk to ers' hands. The demand for alfalfa tion is whether the ready mixed ration the straight beef breeds in the show pounds oil cake meal.

Another very important consideration the straight beef breeds in the show pounds oil cake meal.

lunch, seems a far cry from an orchard or farmyard in Ontario. Yet it is that either throw your ration badly out of producers. During the eight succeeding dam of Marquis was Rosebud 12 balance, or necessitate you disposing years two cows have made records apof more of your home feeds than is nec- proximateing 8,000 pounds; six cows of milk. To some extent the analysis may be and eleven have made records of over Read The Chronicle ads on page 7.

5,000 pounds. The herd has been in spected by a great many visitors and no person has questioned the suitability of Some have questioned the existence these animals for beef and waiting lists class and all having the same value. of such an animal as the dual purpose are on file continually for breeding The alsike and red clover seed market There are a number of honest, reputontinues draggy at unchanged prices able concerns with high ideals that cake meal. From six to ten pounds of this mixture was fed per head per day supplemented with prairie hay and sunflower silage. When on pasture in summer, a light feed of oat chop was given at the time of milking. The meal mixture for 1929-30 has been altered for winter feeding and is made up as fol-

a little bacon for tomorrow's breakfast or an apple or two for the children's Timothy seed is also in fair demand or an apple or two for the children's Timothy seed is also in fair demand lunch, seems a far cry from an orchard and at slightly higher prices than last

# GREETINGS

We extend the Season's Greetings to our Customers and Friends with the hope that 1930 may be a Happy and Prosperous New Year.

W. J. VOLLETT Garafraxa Street

Durham

relied upon as a guide. However,

there are a number of important fac-

tors that analysis do not show. For

example, it tells us nothing about the

digestibility of the feed-the amount of

protein, carbohydrates, etc., that can really be used by the animal-a very

important point. Neither does it tell

us anything about the palatability of a

ration, and since the more palatable a

ration the more easily digested, this is

also very important. Neither does the

up the animal's body. Complete pro-

In selecting a ready mixed ration,

How long has the manufacturer been

What growth and progress has the

What has been done to make this

particular feed the best dollar's worth of feed you can buy for your money and

the best suited to your particular

What type of dealer is handling the

What can the ready mixed ration be

What proof is available as to the re-

sults this particular ration has pro-

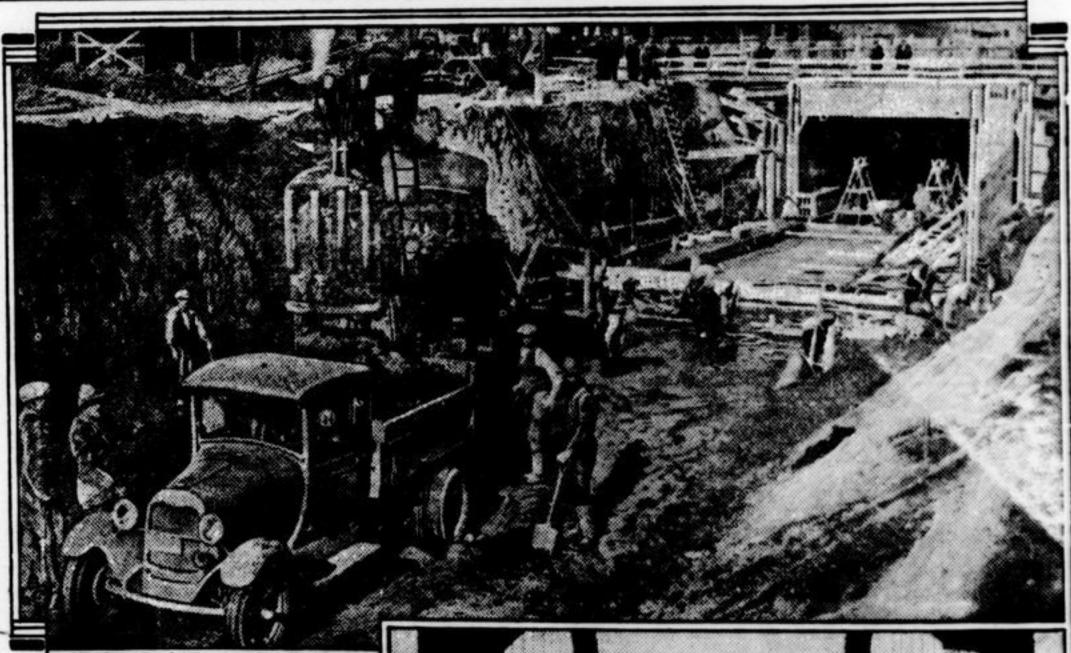
expected to do in the way of extra

manufacture: made?

dollars over feed cost?

any feeder will do well to ask himself

# Fording the American Boundary Twice



Longest Suspension Bridge In World Opened.

BOVE and below, the international boundary between Can-A ada and the United States is being spanned where the Detroit River separates Ontario and Mich-Already the two-mile Ambassador

Bridge is linking the people and interests of the two countries. Following a dedicatory ceremony on Armistice Day, the span was thrown open for public use on November 15. For three years, it will enjoy the distinction of being the longest suspension bridge in the world. By 1933, however, its stretch of 1,850 feet between the two sky-scraping towers will be forced to take second place because of the longer span of the Hudson River bridge linking uptown New York and Jersey. Until the building of the Ambassador bridge, world distinction for the longest suspension span was enjoyed by the Philadelphia-Camden bridge over the Delaware River, its suspended length being 1,750 feet.

In the meantime, dredging and excavating are being rushed on the Windsor-Detroit tunnel. It is expected that, before another year has passed, this international thoroughrale stro can de in fise

An example of the manner in which this work is being expedited is given by the record accomplished



Below—Curve of the huge span of Ambassader Bridge, epened between Windsor and Detroit Nevember 18, is shown by the lower level of the further cable tower, visible through the rear window of the Ford sedan. Above—Work on Windoor-Detroit tunnel is being speeded since of f International bridge. Photo shows truck removing slay from Wind

by Ford trucks in removing 40,000 ried of two weeks. This record | a distance of three miles each trip cubic yards of wet clay from the achievement required that the with a load of two yards of wet Windsor entrance in the short per trucks make 35 round trips daily, clay.

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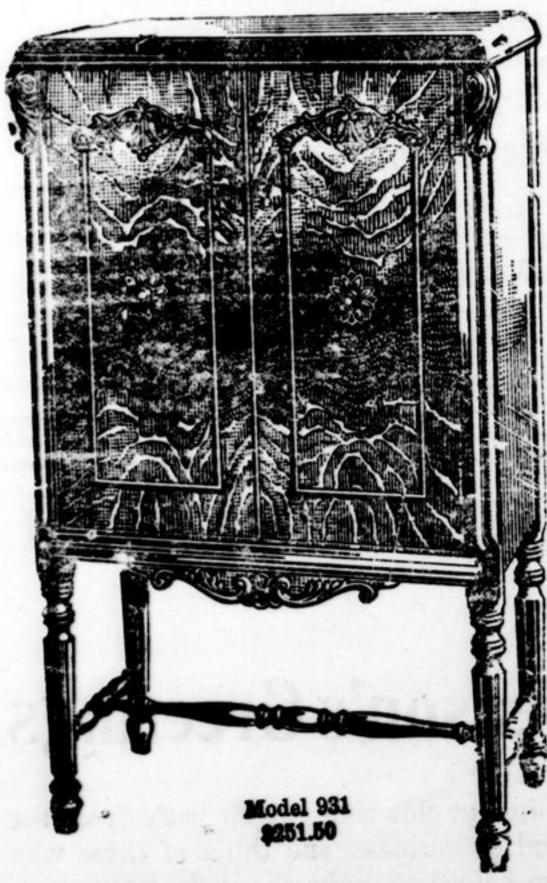
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