THE MARITIME BROADCASTER

VAGRICULTURE V

Saint John, N. B., January 17, 1936

The Importance Of Quality In Fish Oils For Feeding

EIGHTEEN

Must Be Well Supplied With Vitamins A and D.

By H. S. GUTTERIDGE, Central Experimental Farm. Ottawa, Ontario.

Since fish oils are fed primarily. not as sources of fat, but as vitamin containing supplements, the first essential is that they be well supplied with the fat soluble vitamins A and D. At the present time there is but one acceptable and practical way of determining the potency of any oil in this respect, namely. through feeding the oil to small laboratory animals, preferably chicks, on rations devoid of these vitamins and ascertaining the number of units of each vitamin present. This constitutes a biological test and biologically tested oils are available on the market. At the present time by this method of testing only, can the vitamin content of any substance be ascertained.

As is often the case, however, fish oils may be high in vitamin content but may possess other physical or chemical properties which make them unsuited for consumption. In the past, because oils high in free fatty acids have been deleterious when fed to chicks, a high content of these acids was considered to be an indication of an unsatisfactory oil. Investigators, however, have been unable to show that free fatty Use on Home Lawn acids in fish oils are harmful. Recent research work, at the Poultry Division of the Central Experimental Farm, has indicated that fish oils of poor quality may contain certain poisonous substances Experiments Have Been Carwhich are detrimental to growth. uniformity and egg production of chickens. It was also found that in most cases oils which are high in free fatty acid content are also high in these poisonous products, although this is not necessarily always the case. These substances are nitrogenous in nature and one, but here it is being restricted originate through decomposition to refer only to the average rural of liver or other body material in or urban lawn in contrast with the oils, by enzymes and bacteria. the specialized lawn such as the They are apt to be present in bowling green or golf course. This comparatively large a mounts distinction is being made because when stale livers are used for certain grasses, which thrive rendering oil or when oils are not under specialized conditions, will



When the Live Stock Breeders gather at Saskatoon on January 22nd for their annual convention they will hear important addresses from the above officials. Left to right—DR. E. S. ARCHIBALD, Director of Experimental Farms, Ottawa; HON. J. G. TAGGART. Minister of Agriculture for Saskatchewan, and F. H. AULD, Deputy Minister of Agriculture.

Some Grasses For Are Enumerated

ried Out With Various Types.

By L. C. YOUNG, Dominion Experimental Station, Fredericton, N. B.

The term lawn is a general carefully rendered and contain not succeed under conditions exliver material. The same condi-tions usually bring about a high In order to appraise the value In order to appraise the value Hence, oil made by the sun-rendering process will usually be high in both toxic nitrogenous Hence, oil any grass, it is that an ideal lawn grass should possess. Briefly, these are as follows: An products and free fatty acids ideal home lawn seeding must while steam-rendered oils will possess the ability to produce a usually not be so, unless made firm, even sod, of uniform texture therefore, that an oil high in free able to a wide range of soil and fatty acids and nitrogenous pro-ducts has either been poorly pro-permanent, lasting over a long cessed, or made from stale fish period of years; it must be agmaterials, or both, and should not gressive, rapidly colonizing vacant

FIELD CROP VALUES

THOUGH the value of the principal field crops Canada in 1935 is estiof mated at a seven per cent. decrease in comparison with 1934. increased valuations are shown for British Columbia, Saskatchewan, and New Brunswick. The other six Provinces have lower valuations than in 1934. In Quebec, the decline of about \$12,000,000 is largely accounted for by the lower value placed on hay and clover. Much the same situation exists in Ontario, but since very little of the hay crop is sold, the effect on the farmer's cash income is slight. In fact, the low values make livestock feeding more profitable.

The decline of about \$19,-000,000 in Manitoba is mainly due to the effects of rust on the grain yields, and

in Alberta there was a drop

increase of nearly \$17,000.-

000 in Saskatchewan is due

to the improved grain har-

vests. British Columbia re-

veals a slight betterment in

1935 over the valuation of

An

of nearly \$12,000,000.

1934.

The Eradication of Bovine Tuberculosis In Dominion

From Year To Year.

By Press and Publicity Division, Department of Agriculture, Ottama, Ontario

The demand for the control of bovine tuberculosis in Canada that the air is circulated over and continues to increase and steady under the ice and through to the progress has been made, states cold room where the temperature the annual report of the Veterin- is approximately 40 degrees. If ary Director General for the year this type of building is well inended March 31, 1935. With ap- sulated, the ice will last until late proximately 8,485,000 cattle in in the summer and may be rethe Dominion, 2,251,771, or 26.5 plenished from the common storper cent., are under tast. Many age ice house. Saw-dust is not new herds have been accepted and used to cover this ice in this are receiving attention under the building, as the air must come accredited and supervised herds in contact with the ice, if the plans, while initial general tests cold room is to be kept at the dehave been conducted in establish- sired temperature. Ice is usually ed areas in the Provinces of New near at hand in most farm dis-Brunswick, Quebec, Ontario, and tricts and is not being looked Manitoba. Several general re- upon by many farmers as a cheap tests of areas have also been com- and effective way of producing pleted but there is still a number high class milk and cream, not to of areas that have been estab- mention its value in the home. lished in which the tests have not yet been undertaken. has passed two clean tests with an upon request. interval of one year, or in the case where re-actors were found also known as Brown Top, P.E.I. in the herd, three clean tests with bent, Rhode Island bent and New Zealand bent is a non-creeping of grade cattle which cannot intervals of six months. Owners products may vary from only a weeds; it must possess the ability slight one on growth, uniformity to withstand drought and the production of fine lawns and plan may take advantage of the and egg production to very seri- ability to thrive without too much particularly suited for mixing supervised herd plan to establish with Kentucky blue grass. Its in- herds free from tuberculosis. Care mortality, depending upon their Lawn grasses may be grouped clusion with blue grass increases is taken to eliminate infection, concentration. Oils sold by re-broadly under three general head-the minture producer and and the same methods are followliable dealers are usually of a ings, the bent grasses, the blue the mixture produces a good ed as in the accredited herd plan. stated free fatty acid content and grasses and other grasses. Of all dense, hard wearing surface, but no compensation is paid for the purchaser should, therefore, grasses, Kentucky blue grass most White Dutch clover should be inbuy only oils of low content (two nearly approaches the standard cluded in all lawn lawn seedings, although they must be slaughter-



FREDERICTON, N. B.

Plans are now under way at the Dominion Experimental Station. Fredericton, for the storage of ice. Ice is valuable on any farm and particularly so where milk is produced for human consumption. A high class product cannot be supplied unless the milk the cow and is kept in a cold place until it leaves the farm.

At the Fredericton Station two kinds of ice storage are provided.

1. A common ice storage build-Demand For This Increasing ing is used to provide ice for general use, such as refrigerators, ice tanks, etc.

2. A well insulated building is also used with an adjoining compartment used as a cold room. This building is so constructed Plans and specifications of ice houses will be provided by the An accredited herd is one which Dominion Experimental Station

free fatty acid content of the oil. of any grass, it is essential to from stale livers. It follows and good color; it must be adaptbe purchased.

ous stunting of growth and high attention. this constitutes the only means of under a great range of soil and pounds per 1,000 square feet of a In the restricted area plan for under a great range of soil and pounds per 1,000 square feet of a In the restricted area plan for the evaluation of bovine tuberat present available.

IN THE CATTLE COUNTRY

boo country to the east and the minion Experimental Station at to be covered. Chilcoten country to the west. An Fredericton. N.B., where fertility may be gauged from the fact that the limiting factor.

the trip.

patronizing its advertisers.

areas, and thus preventing the in-The effects of these poisonous vasion of undesirable grasses and

to four per cent. or less) since of the ideal lawn grass. It thrives A seeding of two to three ed under supervision.

sistant to drought, but naturally blue and one part Colonial bent culosis, all cattle are tested with reaches its best development in a is generally recommended for tuberculin, the re-actors slaughrich, moist soil. It has been re- Eastern Canada. To the grass tered under supervision, and The stockyards at Williams ported from various quarters as seed 1/4 to 1/2 ounce of White compensation paid. All cattle for Lake. B.C., lie in the centre of a not thriving in acid soil, but this Dutch clover should be added for permanent stay in the area must has not been the case at the Do- every 1,000 square feet of surface be accompanied by an official

idea of the size of this territory and not acidity has proven to be

DRIED FRUITS it takes three weeks to drive cat- Kentucky blue grass produces a Dried fruits and vegetables are tested on arrival at destinatle to the stockyards from the firm even sod of fairly fine tex- which have been preserved by tion. more remote ranches, while the ture, though of course, not as fine drying where canning was not bulk of the cattle which comes as the bents. It is durable, per- available should be stored in air- "Forget self in laboring for Canada to Honolulu have proven from the west of the Chilcoten manent and aggressive, and re- tight containers. Tin cans and mankind; then will you woo the so successful that further orders River requires ten days to take quires the least care of any lawn glass jars are satisfactory, or weary wanderer to your door, win have been received by British

erass. It is relatively inexpensive, paper bags dipped in wax and the pilgrim and stranger to your Columbia dealers. According to It is recommended as the most allowed to dry. The bags should church and find access to the advices, there is every indication Support "The Broadcaster" by enerally suitable lawn grass for be carefully sealed and stored in heart of humanity."-Mary Baker that a substantial trade will be Castern Canada. Colonial bent a cool, dry, well ventilated place. Eddy.

certificate of tuberculin test, with the exception of cattle for immediate slaughter on approved

SAUSAGE PRESERVER

Salt, pepper, and sage or allspice are used for preserving and flavoring sausages made on the farm. Thirty pounds of sausage meat will require 1/2 pound of table salt, 2 ounces pepper, and 1 to 2 ounces of sage if the sausage is for immediate use, or 11/2 to 2 ounces of allspice, instead of sage, for long keeping. These ingredients should be mixed dry and thoroughly incorporated with the sausage meat.

WHEAT ESTIMATE

The preliminary estimate of the total production of wheat in Canada in 1935 at 290,541,000 bushels is 14,692,000, or 5.3 per cent, above the 1934 unrevised estimate, according to the Dominion Bureau of Statistics. The quality of the crop this year is definitely poorer than that of the 1934 crop.

HATCHING EGGS DEMAND

Hatching eggs shipped from developed.

premises and feeder cattle which