Common Grains Grown At Home **Cheapest For Cows**

Can Be Supplemented With Protein in the Form of Fish Meal.

By S. A. HILTON, Dominion Experimental Farm, Nappan, N. S.

necessary for economical feeding of dairy cows should and could be grown in Eastern Canada. Data collected at the Dominion Experimental Farm, Nappan, over a period of years, show that our common grains can be produced more cheaply than they can be purchased.

The greater part of the necessary purchases, therefore, should be in the form of high protein concentrates to balance the ration of home-grown feeds.

The most highly concentrated protein feed on the market is pro- in most cases an abundant supply duced in the Maritime Provinces, of feed is available. The number namely, fish meal. For some of hogs is also showing an inyears it has been recognized as crease across the Dominion. "Durhaving a distinct value as a pro- ing 1935 cattle prices were somehogs. In order to determine its year. This was a result of imhave been conducted at this farm, and substantial exports to the paring it with linseed oil meal as higher than for some years, a source of protein in balancing a ration of home-grown grain for 2.5 per cent. oil and 18 to 22 per cent. bone phosphate. The oil meal was 39 per cent. protein. The grain ration was made up of oats and barley, approximating a 2 to 1 ratio of these feeds. It was found that 1,714 pounds grain plus 286 pounds fish meal, tot 1ling one ton, were equal in protein content to 1,412 pounds grain plus 588 pounds oil meal. Fach of these rations contained 20 per cent. total protein, but the fish meal ration was 1.5 to 2 per cent. higher in minerals.

The results of the feeding extions may be summarized as fol-

in feeding the fish meal ration, the Canadian market during 1936. unpleasant flavors, etc.

18 to 22 per cent. bone phos- most important factor in the dis-

would be improved somewhat by including some bran to offset any danger from constipation, par-6 pounds of grain ration per head per day.

IMPORTED POTATOES

Ottawa.—Complaints regarding the U.S. agreement are not coming entirely from manufacturers. The fruit and vegetable growers of British Columbia and Ontario are very critical of the tariff cuts, tuce, celery and strawberrieswhere new rates are lower than hose of the Dunning budget of

sulting in much head scratching. alerm.

& AGRICULTURE &

DEMAND FOR CANADIAN HORSES Carcass Grading NOW SHOWING A GOOD INCREASE Of Hogs Is Proving Canada's Livestock Interest in Breeding Is Being Popular In Canada

It is a well recognized fact that the greater part of the ration showed Increase During Last Year the revival of interest in the breeding of horses is one of the

Improved Demand and Higher Prices Brighten Outlook.

By Press and Publicity Division, Department of Agriculture, Ottawa, Ontario.

with feeder cattle this winter and tates the "Agricultural Situation Trade and Commerce.

part: "During 1935 total exports of Canadian cattle and calves exceeded those of the previous year by over 100 per cent. Substantial hipments of cattle and beef were made to the United Kingdom during the first quarter of 1935, but the rapid rise in prices in the United States, without a similar improvement in the British market, caused a diversion to the United States.'

No difficulty was experienced be an important price factor in 206 such clubs in operation.

Fish meal may be recommended crease in output in Canada is not available, the fish meal ration have a beneficial effect on prices premium. would be improved somewhat by during 1936," according to the increase in volume.'

the "Outlook" should be made to ughbred stallions of hunter type, and Extension and the services of which are Branch, Dominion Department of available for mares of the district Agriculture, Ottawa.

GROWING TOMATOES

dead areas, and a yellow surface, come. The Canadian negotiators ap- Apart from serving as a possible parently never contemplated im- breeding ground for leaf spot and ports of potatoes and the appear- other fungi, the conditions of ance of U.S. tubers on the To-such leaves is generally of no imronto and Montreal markets is re- portance and should occasion no

Dominion.

In Canada at the present time breeding of horses is one of the most striking of the many activities of the Dominion in livestock production. There should be no question as to the necessity for this increased activity. There is a shortage of draft horses not States and Great Britain , and it ment of Agriculture, indicates only in Canada but in the United takes at least five years to produce and raise a horse to the age inces of Canada are well stocked of four years. Also the annual due to disease, old age, and other troduce it into Western Canada. natural causes, is very consider-

While the number of horses on farms in June, 1935, showed an tein supplement for poultry and what higher than in the previous increase over that of June 1934. has taken the increased provalue for dairy cows, experiments provement in domestic demand duction of colts in 1933 and 1934 to reach the point where the anduring the past three years, com- United States where prices were nual increase exceeds the natural wastage of mature animals. At the same time, it must be rememand Outlook" for 1936, to be is- bered that the colts of 1934 and 1935 will not enter the ranks of much more accurately after it has gluten feed, tankage, fish meal,

> Agriculture has continued and breeders in increasing num- known.

protein and minerals for feeding until the latter part of 1936. "The vincial Departments concerned product. dairy cows, providing it is of good British bacon market has been a join on a fifty-fifty basis in in- Incidentally Canada is the only ods of cider making. In the quality (60 per cent. or higher in very important factor affecting specting stallions and paying an country exporting bacon that does fruit products laboratory of the protein, below 6 per cent. oil, and prices of Canadian hogs and the annual premium to the owners of not have a general system of car- Central Experimental Farm at approved registered stallions, cass grading. posal of production over and based on the number of mares left In these experiments roots were above Canadian requirements. in foal. In 1935 the owners of

"Outlook." A study of the probable domestic demand and export saddle horses, hunters, and horses witches for removal to the probable domestic demand and export saddle horses, hunters, and horses witches for removal to the probable for removal to the prob ticularly with cows receiving over possibilities leads the Ottawa au- suitable for remount, police, and thorities to the conclusion that light delivery purposes, an annual 'Canadian hog prices during 1936 grant is made by the Dominion Bureau of Statistics and Feed is dumped into a large tank of will probably remain fairly re- Department of Agriculture under munerative despite the expected the Breeding Station Policy to the proprietor of a stallion who owns Application for free copies of or controls at least three thorserved by the station. Nine such and poultry to the extent of 198,- folded over, completely enclosing stations operate across Canada, 055 tons with a value at the the pomace. A series of these and in each of the past three manufacturing point of \$7,725,177 layers of pomace (usually six) is particularly on three items—let- UNHEALTHY CONDITIONS IN vears Canadian built up, one on top of the other, horses have been purchased by feeders in 1934, according to a and each separated by an open In looking for the cause of un- the Governments of Trinidad and survey conducted by the Domin- lattice press-board. Such a series, healthy conditions in tomatoes, Barbadoes where the animals ion Bureau of Statistics in co- or cheese as it is termed, is placed one should first consider to what have proven highly satisfactory operation with the Feed Division under the hydraulic press for More than that, an unexpected extent they may be due to un- in constabulary work. Taken all of the Seed Branch, Dominion about 12 minutes. Storage—The inflow of U. S. potatoes has avorable soil, temperature, and in all, the present outlook for the Department of Agriculture. The juice may be clarified by passing plarmed the potato growers of the moisture conditions. Some of the horse breeder in Canada is very only other similar survey covered through a high-speed machine. central provinces. The general earlier-formed leaves of tomatoes promising, and the raising of good 1930, when 175,987 tons valued at then either an asbestos pulp pretariff on potatoes is 75 cents per lie naturally. Many of these be- horses should be a sound and \$7,714,739 per purchased. the intermediate tariff is ore they are cast show leaf spots. profitable business for years to Poultry feeds led all others in tomaceaus earth as a filter-aid.

HONEY AS ANTISEPTIC

and for cuts and burns.

To Be Extended Under Service Arranged by the Livestock Branch.

By Press and Publicity Division, Department of Agriculture, Ottawa, Ontario.

The increase in the number of hogs being carcass graded under the service arranged by the Livestock Branch, Dominion Depart that this system is proving very popular among farmers in Eastern Canada and arrangements are therefore being made to in-

Dressed grading means that liogs are graded as carcasses after being slaughtered and hung on the rail, and consequently the farmer is paid on the basis of of only 14 tons of sheep feeds quality and weight after slaugh- were reported. the live grading system.

this means of assistance. The ant for a large proportion of extensively on supplemental ma-Clubbing Policy, for example, Canadian hogs are exported to terials and less on complete mixed which is effective in the Prairie Great Britain as Wiltshire sides feeds than do poultrymen. Provinces makes it possible for and if these are not up to the excommunities of farmers to secure acting standards demanded a the services of the best stallions sharp discount in price is the reavailable and retain them in the sult. Morevover, the hog which The United States Bureau of fostering community breeding and for the export market is also the periments comparing these raAgricultural Economics does not co-operative effort. The Dominion one that commands the premium anticipate a recurrence of the Department of Agriculture on its price on the domestic market. It high prices of beef cattle during part makes a grant to organized is by the dressed or carcass grad-No significant difference was the spring and summer of 1936, horse-breeding clubs of 50 per ing system that the producer can noted in production between the but with tariff barriers lower on cent. of one-quarter of the server get the information which will Some Comments Made Here two rations, nor in the feed con- Canadian cattle the influence of ice fee for each mare proving to assist him in learning the value sumed per unit of production. the United States is expected to be in foal. In 1935 there were of raising the best quality of bacon hog

Under the Dominion-Provincial The market both at home and either as to palatability or effect. The number of hogs is increason the milk produced, by way of ing in Canada, United States and Provinces of Eastern Canada, in quality products; it is the low the United Kingdom. The in-British Columbia, and in Sask-grade product that sags on the duct, "Scientific Agriculture," the atchewan, the Dominion Depart- market. There is always a ready monthly publication of the Canawithout hesitation as a source of expected to be so pronounced ment of Agriculture and the Pro- demand for the highest grade dian Saciety of Technical Agri-

Division Co-operating.

By Press and Publicity Division, Department of Agriculture, Ottawa, Ontario.

volume by a large margin and ac- The delivered juice is clear and counted for about 70 per cent. of free from all visible suspensions. the total. Cattle feeds, princi- A further filtration through Seitz pally for dairy cattle, came next, E.K. plates completely sterilizes Honey smeared on linen strips with 27.130 tons, followed by the juice, allowing it to flow into used as an antiseptic in Scot- swine feeds with 16,252 tons and a sterile vat where it may be held Corre feeds with 4,228 tons. Sales indefinitely in a sterile condition.

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ter. The results of this system These figures include but a part have shown very clearly that the of the farmers' outlay for feeds. top quality hogs yield higher re- They cover only mixed feeds and turns to the producer than under do not indicate the extent to which single materials such as It is possible to grade the hog bran, shorts, linseed oil meal, contained 70 per cent. protein, such such such etc., are purchased to supplement the four-year-old work horses been dressed because then such etc., are purchased to supplement the four-year-old work horses been dressed because then such etc., are purchased to supplement the four-year-old work horses characteristics as thickness and and halance form grown feeds. until 1938 or 1939, while the an- characteristics as thickness and and balance form grown feeds. A Discussing the export market In appreciation of the city of corpora this land distribution of back fat, balance complete survey would not only In appreciation of the situation, of carcass, thickness of belly and show a much greater volume of for cattle, the "Outlook" states in the Dominion Department of other characteristics can be noted purchases, but undoubtedly also a its correctly. In addition only by this proportionately greater amount of policies for horse improvement, system can the exact weight be feeds for livestock as compared with poultry feeds, since in genbers are availing themselves of These points are very import- eral livestock feeders depend more

district from year to year, thus produces the best Wiltshire side lastering community breeding and for the export market is also the In Lab. At Ottawa

On One Method.

By Press and Publicity Division. Department of Agriculture, Ottawa, Ontario.

Discussing cider as a fruit proculturists mentions several meth-Ottawa, what is known as the closed Cuvee process is used in fed. When succulent feed is not available, the fish meal ration would be improved somewhat by a during 1936." according to the would be improved somewhat by fairly regular procedure is as follows: Pressing—The fresh fruit water which is kept agitated. The clean apples are then paddled onto a pulley which conveys them to the press. They are crushed into a pomace which is dropped on the press-cloths in layers about Ready mixed feeds for livestock one inch thick. The cloths are filter or a plate filter using dia-