tion is run up much higher and the

labor is run up much migner and the labor is just as great as where a good one is fed. Pure bred sires of some dairy breed should be chosen. The calf will ac-quire the characteristics of the sire. A quire the characteristics of the size. A size of the same breed should be used a second time as the good results will be spoiled if the blood is mixed. If they are creased for two or three generations, they will be almost as good as pure breds. The process of ealling should be started at once up means of the scales and the Babbock generation of the scales and the Babbock means of the scales and the Babbock is the scale and the scale and the babbock is the scale and the babboc

#### **Rotation of Crops**

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siderations. It is impossible, there-fore, to lay down any one system, which every farmer could adopt, and carry out successfully. At the recent dairymen's conventions, Mr. J. H. Grisdale, of the Central Experimental Grisdale, of the Central Experimental Farm, Ottawa, gave a system of rota-tion well adapted for dairy farming. This has appeared in recent issues of The Canadian Dairyman and Farming World

World. Where a farm is so situated that manure canot be applied regularly, a three year rotation of grain, clover, hay, pasture, in succession, would work well. A three year rotation, corn and roots, grain and clover hay, is well suited for a farm, where it is desired to keep a large number of cattle, and where three is more or

less broken irnd to serve as pasture. For the average farmer, who is en-grad in general farming, a four year rotation, consisting of corn and roots, potatoes or peas, the first year; grain the second yea; followed by clover, hay, and hay or pasture, the next ico years, is well suited. A five year rotation-grain, with 10 pounds of clover seed to plow down for fertilizer; corn, roots, potatoes, or

The Canadian Dairyman and Farming World

A five year rotation—grain, with 10 pounds of clover seed to plow Jown for fertilizer; corn, roots, potatoes, or peas, grain; clover hay, hay or pas-ture, sown in success in, may be fol-lowed with some advantage, where there is a moist elimatic. Where elimatic conditions permit of a good growth after the corn crop is har-vested, clover is very profitable to very eas rotation—Grain; clover, hay or pastaric; corn, betatoes, roots or peas; grain; clover, hay or pasture, is perhaps better adapted for the avec-age farmer anxious to quickly put his farm ing god heart, and keep it in that condition. In the recent dairy farms compe-tion, ield in York County, a number of the competitors lost points, he-cause the judges found that they did not have any system of crop ro-tation. In other words, they there need. Farm this year, as though you were going to enter a good farms com-petition. Adopt some system of crop rotation.

# Cow Paths That Lead Far Apart

Mr. W. F. Stephen, associate editor The Canadian Dairyman and arming World, exhibited a chart t the recent dairymen's convention Farming at Huntingdon, Que., which he called "Cow Paths that lead far apart." The "Cow Paths that load far apart." The average production of the cows of Canada is 3,000 lbs. of milk, and 115 lbs. butter a year. This, at 22 cents a pound, gives \$25,30. Estimating the cost of feed at \$36,6 it leaves a loss of 70 cents a cow. He cited a case in his locality where in 1005 a herd of 28 cows grad bs. of butter, which at 22 cents a pound, gave \$70,75. Deducting cost of feed for the year, \$38,00 a cow gave a profit Which at 22 cents a point, gave  $\frac{2}{3}$ ,  $\frac{2}{3}$ ,

ing 248 lbs. butter, having a value of \$44,56. It is needless to say that the oware of this herd had paid great attention to breeding Scotch animals from high producing families. He also paid great attention to the feed-ing of his herd, and when they did not come up to the standard they were sent to the butcher. The speakac em-phasized the value of milk records to the dairyman. They took so little time, and proved of great value in determining the unprofitable cows. time, and proved of great value in determining the unprofitable cows. He considered the spring balance scale and babcock test a necessity in his stable, and would discard other things before he would let these go.

## Alfalfa: Food and Fertilizer.

Throughout the Dominion, Alfalfa now recognized as the most profitais now recognized as the most profita-ble crop the dairymanfarmer can grow. No other plant can equal it as a flesh-forming and "Milk-Pro-ducing" food. Animals pastured on it show a trapid gain in condition, especially milch cows and hogs. Aft-er the first season it will yield three heavy crops each season for many years, and that of a food proven hy analysis to bear nearly equal to bran in nutriment. Alfalfa can be grown in any part of Canala where red clower will move

Alfalia can be grown in any part of Canaia where red clover will grow. An expert authority advocates that the seed be sown only after the sur-face soil has become warmed, gen-etally speaking, about the first of June, as cold and damp kills off the germination. Alfalia will require no cultivation for years excepting a coat of farm manure every winter to make up for the vegetable matter through the speak taken off with the trop.

But it is as a fertilizer that Alfal-fa is so remarkably valuable. It col-lects immense quantities of mitrogen from the air, and thus furnishes the soil in a natural way with large quan-tities of the richest fertilizer. The roots of Alfalfa penetrate deeply in-to the subsoil bringing to the sur-face rich miterial food that could Its deep rooting habit opens up the subsoil, allowing free access to air and water which sweeten and renovate the land. the land. Alfalfa is certainly destined to revo

Artarta is certainly destined to revo-lutionize farming in this country. Its food values, bount-ous yielding proper-ties, and rare fertilizing action render it the most valuable plant known to Agricultural Science.

### Judging Dairy Cattle

Judging Dary Cattle "The main feature in judging asiry cattle from the farmer's standpoint is that the dairy cow should repre-sent a perfectly working machine that will convert cheap roughage into high class milk products. She is a crea-ture of habits and takes only a cer-tain type which has been established on certain clearly defined lines to the satisfaction of all stockmen." This opinion of the dairy cow from

many times .ight.

In securing a	
sary that every dance	mould be taken
to find out whether	imer ancestry car-
ried a record that is	
purity and ability	
expected. Unless he	r dam and grand
dams were good mil	k producers, and
unless her sire was	without reproach,
it was not to be e	xpected that she
would become a pro	fitable boarder.



ample of good, pute Alfalfa Seed greatly agnified. Contrast this with the "cheap"

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"cheap," impure Alfalfa seed, greatly magnified

