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Notes on Tile Drains

Jas. Marshall, Wentworth Go., Ont.
We have not been troubled much with deposit or silt getting into our tile drains, as the seil here is heavy clay. Where there is quicksand, there should be silt basins made in convenient places, with the bottom of the basin lower than the tile drains. These should be cleaned out regularly.

The larger crops on underdrained soil, and the reduced cost of working soil, and the reduced cost of working it, should fully repay any person for the cost of underdraining in three years. Besides, we have the pleasure and satisfaction of having the farm in first class shape.

I may also say that where farms are thoroughly drained, the manure and good scil will remain, to benefit the crops, while scarcely anything but clear water will run off the farm.

New Light on Plant Breeding Scandinavia, comprising the three countries of Sweden. Norway and Denmark, has a reputation for pro-

HELPS In Making BIG RECORDS

F. R. MALLORY, of

Frankford, Ont., who owns the Lawncrest Holstein Herd, the home of the great

May Echo Family wrote us recently as follows:

"We have just been making an offi-cial test on a cow which has pro-duced over 100 bs. of milk per day for 7 consecutive days, and averaged over 90 bs. milk per day for 60 days. She has been fed "CALFINE" with gratifying

results."

Test a good wholesome and reasonably cheap food for calves and for testing cows. (ALFINE has proved with us to be almost a necessity.

"Kindly forward me. nother 500 lbs. as my supply is about finished and we do not wisn to be without it."

CALFINE

is great for calves. You can use it also at a profit on your record making cows. Get it from
your dealer or send money order for \$2.78
and we will ship you 100 lbs. of CALFINE
as a trial. Freight Prepaid to any station
in Ontario, nouth and east of Sudduty.

CANADIAN CEREAL AND MILLING CO., LIMITED Toronto, Canada

GASOLINE ENGINES

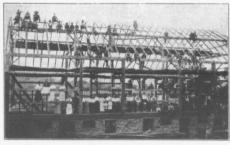
1; to 50 H.P.



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FARM MANAGEMENT and using better seed than any of the other countries of the scandinavian seed experts are recognized as the most expert plant breeders to-day. In order to discover the exact truth about Scandinavian the exact truth about Scandinavian and often when others less solicitous methods of plant breeding, L. H. on this question fail, or pari-aily so, Newman, B.S.A., Secretary of the canadian Seed Growers' Association, fracently spent nine months in those countries, and as a result of his visit to Europe we now have a new buller to Europe we now have a new buller grow afalfa, that does not change the Mr. Newman spent the most of his rotate even if we have to sacrifice a

First, and above all things, look to the maintaining and increasing of the fertility. If that is done, one need not worry much about the crop, for he will have a crop if anyone does, and often when others less solicitous on this question fail, or partially so, in a crop. Every crop grown on the farm is greatly aided by such a plan of rotation.



What a Pleasing Combination of Work and Fun is a Barn-Raising

The above illustration, taken on the farm of Mr. Ernest Fallis, Durham Co., Ont., will to many of us bring back many pleasing memories. We almost regret that the day of the barn raising, the logging bee and similar social functions is now passing away. In the past these bees held an important part in the social life of rural communities

time at Svalof, in Sweden, the leading fine crop of alfalfa.—Hoard's. plant breeding station of the world.

Mr. Newman's investigations reveal Do not feed too much structure.

Mr. Newman's investigations reveal the startling fact that principles of breeding that we in Canada, and, in fact, in all America, have been led by certain writers to look upon as be-ing recognized in Scandinavia, are not principles which are actually appolied in plant breeding practice in that country. The great importance of these discoveries to students of plant breeding problems will easily be recognized. This new bulletin is for free distribution, but is intended primarily for the scientific reader. The influence which this bulletin will have on plant breeding practice in Canada will lead to far reaching re-

Rotation With Alfalfa

Many writers deprecate rotating with alfalfa on the ground that the alfalfa is too valuable a crop to be devoted to any such purpose. They say it is preposterous to think of plowing a fine alfalfa meadow down when it is producing \$50 worth of

when it is producing \$500 worth or hay a year.

But rotate we must or down goes fertility, and that is worth more than any single crop. We must keep up the supply of humus, for it is in the humus that nitrogen content is found. Therefore, we believe that alfalfa soil should be plowed under once in five years at least. We prefer to let the fourth crop come to at least a foot growth. This will bring it well into growth. This will bring it well into October. Before plowing, spread 1,000 lbs, of raw ground phosphate rock and eight to 10 loads of manure, and plow the whole under. The action of the snow and frost is beneficial in fining the soinl and the native fertility has been greatly reinforced by this action.

We notice that those who make it we notice that those who make it a regular practice to turn under the alfalfa once in five years, with possibly a good top dressing of farm manure on the alfalfa while it is in the meadow, always have good crops, providing that some time in that five years' course they give the land a good lining. The principle we follow is this:

Do not feed too much straw. It requires almost all the energy the animal derives from it to masticate and digest it.

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Who is Pontiac Korndyke?

I find there are quite a few people who know something about Holsteins, but yet do not know about the enviable world's records held by Pontiac Korndyke.

He is a wonderfully prepotent bull having four daughters with official 7-day butter records exceeding 37 lbs. He has 12 daughters over 30 lbs. butter in 7 days.

He is the sire of the Great King of the Pontiacs-a bull with two daughters having official records of over 30 lbs. butter in 7 days, these records being made as 3-year-olds.

'King of the Pontiacs' is acknowledged to be the greatest Holstein bull of his age. He is the sire of

Prince Hengerveld of the Pontiacs

the bull that heads my herd at THE MANOR FARM.

Some young stock-a few choice bulls out of splendid dams and by Prince Hengerveld of the Pontiacs-I am offering for sale.

Write for full particulars about them or come and see them and inspect others in my herd, including a young bull and a heifer recently dropped, and by Pontiac Korndyke.

The Manor Farm Holsteins are of popular breeding, the kind the other fellow wants; and I price them reasonable so they will make you money.

GORDON S. GOODERHAM THE MANOR FARM BEDFORD PARK, ONT.