

CONDUCTED BY PROF. HENRY G. BELL

CONDUCTED BY PROF. HENRY G. BIELL The object of this department is to place at the ser-Vice of our farm readers the advice of an acknowledged Buthority on all subjects pertaining to soils and crops. Address all questions to Professor Henry G. Bell, In eare of The Wilson Publishing Company, Limited, Toron-to, and answers will appear in this column in the order in which they are received. When writing kindly men-tion this paper. As space is limited it is advisable where immediate reply is necessary that a stamped and ad-dressed envelope be enclosed with the question, when the answer will be mailed direct.

Copyright by Wilson Publishing Co., Limited

H. G.:-Is nitrate of soda a good spring and a little more fertilizer for corn and bean crop? If drag them in? so, how much do they sow per acre? And where could it be purchased? And how much per ton, sacked?

Answer:-Nitrate of soda is strong stock and leaf growing fertilizer. If you apply it alone to corn and beans you are in danger of increasing stock growth and bean straw growth to the detriment of the formation of ears and pods. Applied in confunction with acid phosphate it makes a good source of nitrogen for these Apply nitrate of soda at the crops. rate of 100 to 150 pounds per acre along with 200 to 400 pounds of acid potash. It would be well to mix these materials before they are applied. As to the cost and where it can be purchased, if you will watch the agricultural papers you will see regular fertilizer advertising which will direct you where nitrate of soda can be pur-

C. F .:- Would it be advisable to set tamarack fence posts, and about how long would they last? Does a dry post last longer than the green? Answer: Government tests have fix-

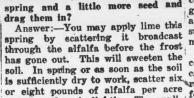
ed the life of tamarack fence posts eter? under average conditions, at nine The dry posts last consideryears. ably longer than one that is green. If you are putting in any number of posts it would be advisable to make been quite a shortage of cedar posts and second growth "sappy" posts have some pigs. Please tell me if sweet been substituted. Aside from the clover will make a good permanent been substituted of north of this is denote the size of th shortness of life of posts of this kind, pasture for pigs. the staples tend to pull out of the soft posts. wanizing rub off, which of course Station, for instance, says: shortens the life of the fence itself.

ting up the fence. This post can be mum cost." these posts under average conditions kind of soil they do best on. at 30 years and while they are slightly more expensive than wooden posts, their longer life and the saving in Rapa, L. time and labor in putting up the fence more than offsets the additional first soil should be thoroughly worked in post.

W. J. A .:- Will you please tell me a ration for milch cows? I am feeding good clover hay, good oat straw, bean pods and silage, corn and oats for grain. What else should I get to balance the ration? Answer:-I would recommend the

following ration for dairy cattle, in pounds per day:

and barley.



and drag them in lightly. The appli-cation of 200 to 250 pounds of a 2-10-4 fertilizer will help materially.

R. R.:--I have a piece of ground in which I intended to sow vetch for a cover crop last fall but the dryness prevented. Can I sow it in the spring and get enough growth by May or June to make it worth while?

Answer:-You can sow spring or common vetch. This is exceedingly good as a cover crop and as material for hay for milking cows. Sow this in spring after danger of frost has passed. If the spring is fairly warm it should grow sufficiently rapidly to make a good cover crop by May or June.

R. R.:-Can you give me a simple rule for finding the cubic contents of a round or cylindrical cistern fourteen feet deep and fourteen feet in diam-

Answer:-The cubical contents of a by fourteen feet in diameter can be found by the following rule:

Twenty-two sevenths times radius sure that they are first grade dried squared, multiplied by the height. This would make 2,156 cubic feet. B. W.:-I am planning on raising

Answer:-Sweet clover is reco

posts. Under these conditions the mended by some Experimental Sta-wire is apt to come down or the gal-tions for hog pasture. Michigan Exp. "Sweet clover is well suited to use

A great many tarmers are now using steel fence posts. With this type of posts there has been consider from year to year and produce a large amount of succulent forage at a mini- in poor condition and lacking in vigor. se saving of time and labor in put- amount of succulent forage at a mini-

C. N .:- What is the true name for set and driven in about a minute and the wire is easily attached with clips. Government tests estimate the life of raise them, what fertilizer, and what

> Answer:-The true name of rutabagas or swede turnip is Brassica Turnips grow on most any soil but do best on medium loam. The

> the spring. Before the last harrow ing scatter over the ground 500 lbs per acre of a fertilizer analyzing 4 per cent. nitrogen, 8 per cent phos-phoric acid and 4 per cent. potash. Harrow this in thoroughly, then mould or rib up the ground, flatten the surface of the ribbed rows and sow

seed along the top of each drill. Turnips should come up very quickly. As a rule they are not sown until 50 pounds straw, 5 pounds ground stay, after the spring grains so that the 2 pounds straw, 5 pounds ground oats growing conditions are most favor-able. Thin out the turnips to a dis-

R. F.:--I would like to have full tance of about 6 to 8 inches apart. aformation about Hubam clover. Turnips make greatest growth in fate

The Treatment of Grain for Smut

The smut diseases of grain are of tion for ten minutes, moving them up considerable economic importance and and down so as to drive out the air every farmer should know how to com- bubbles. Remove the bags and allow every farmer should know how to com- bubbles. Remove the bags and allow bat them for the sake of his own crops to drain and then spread out the grain as well as those of his neighbors. The to dry. Be sure not to replace the treatments which have been devised grain in the bags used for the seed are comparatively simple and should before treatment, but either new bags find a place in the routine of every or ones that have been soaked in the farm. The following is a list of the solution and dried. The solution does common smut diseases of grain crops, not lose strength by use

arm. The following is a list of the solution and dried. The solution does common smut diseases of grain crops, not lose strength by use. with the treatments for each; this is followed by a detailed description of of formalin (40 per cent. formalde-the treatments: WHEAT-Stinking Smut or Bunt: the grain on a clean floor. Sprinkle Thorough fanning of the seed grain the solution, on the scain with a

Thorough fanning of the seed grain the solution on the grain with a will remove most of the smut balls. broom or sprinkling can. Mix well This should be followed by the forma- by showelling over. When the grain in dip or sprinkle, which give perfect is evenly wetted, pile it again and control. Copper carbonate dust is cover with clean bags for two hours, giving good results and is easier of then spread it out to dry and put into

application, but it has not been tested clean bags. Forty gallons of solution sufficiently to warrant general recom- is sufficient for 40 to 50 bushels of mendation.

Loose Smut: This disease cannot be the treatment, adjust the drill to alcontrolled by seed disinfection be- low a free flow of seed, or the stand cause the fungus spores are not car-will be too thin. Wried on the surface of the seed, in-Dry Formalin fection being produced by a small part of formalin (40 per cent formal-part of the fungus carried within the dehyde) with one part of water and

grain. Hot water treatment is the spray this solution on the grain, shovonly means of control.-BARLEY-Covered Smut: Forma-

It dip or sprinkle. Locse Smut: This is similar to the loose smut of wheat-and can only be then be sown without drying. controlled by the use of the hot water

treatment OATS-Smut: Use the dry formal-OATS-Smut: Use the dry formal-dehyde treatment, or the formalin dust are put into a barrel and the sprinkle. In the case of hulless oats, open end covered by tying a piece of either of these treatments causes a canvas or a sack over it. The barrel serious loss in germination of the seed, and copper carbonate dust the dust has been thoroughly disshould be employed. CORN—Smut: This disease is not

CORN-Smut: This disease is not can be used transmitted in or on the seed grain, sowing. Hot Water Treatment: This is Hot Water Treatment unless there but is carried over in the soil from one year to the next and spreads in the field from infected to healthy live steam used in the dairy on the live steam used in the dairy on tion, and as far as possible, the colcylindrical cistern fourteen feet deep by fourteen feet in diameter can be the only means of controlling its spread

Treatments.

Formalin Dip: Fill bags half full of to 127 deg. for ten minutes. The bags



in poor condition and lacking in vigor,

will produce a large percentage of . A ration of three to four pounds small, weak lambs. Such lambs re- per head per day of clover or alfalfa quire more care and feed to develop hay alone may be used. Approximaterapidly enough to reach the market ly one-quarter to one-half pound of early when the prices are usually corn should be added three to four highest. If the ewes are thin in flesh weeks before lambing.

A more economical ration is two to at lambing time they will not produce a good flow of milk. This retards a good flow of milk. This retards three pounds of alfalfa or clover hay growth and stunts the lambs. A and two pounds of silage. The silage

Testing Seed Corn

Without good seed satisfactory crop inches in the box (clid or dry sawdus production is impossible. Good crops hardwood sawdust is to be desired) of wheat, oats, and barley are grown Mark off in squares 21/2 x21/2 inches each year without a seed test before with pencil a piece of cotton sheeting seeding. Why can we not get the checkerboard fashion, number the same condition in corn is frequently squares. Lay this sheet over the sawasked. Corn is different in many ways dust, press down and moisten. Take from the cereals mentioned and we six grains of corn from the ears to cannot expect the high germination be tested, two from near the butt, two common to well ripened harvest from the centre and two from near grains. Corn ripens later in the sea- the tip, and place these in each square Answer:-Hubam clover is an an-summer or early fall. They are not son when damp days and nights are number the ear to correspond with common. The grain is attached to an the number of the square in which open pithy cobb that is frequently the six grains are placed. Using a slower in drying out than the grain piece of cotton of the same dimension is in ripening. The corn grain con- as the box, lay it over the seed and tains a large percentage of oil and press down gently, do not disturb the the grain oils are not noted as pre-servatives. if subjected to many second cloth large enough to fold both changes. The corn germ is not as well ways or about twice the size of the protected by coverings as is the germ box, lay this larger cloth over the box in the other farm grains. The fact in such a way that it extends all that wheat, oats and barley can gen-erally be sown without a test and re-moist sawdust, piling directly on the lied on to germinate has led many last applied large cloth, pack the saw-farmers to believe that the same holds dust down well, by treading or stampgood for corn, and they hesitate to ing with a brick or heavy do the necessary careful work and wood. This layer of sawdust should prove themselves the dependableness be two inches thick when firmed. Fold of the seed corn before planting. the extending portions of the cloth A few hours devoted to corn testing over the sawdust forming as it were a A few nours devoted to thin testing large pillow or pad. When this has during the slack season in February large pillow or pad. When this has or March will frequently prove of been done, the box or boxes should be greater value in providing corn with set away in a stable or room where



tributed over the seed. This treatment must be of good quality and not can be done at any time prior to frozen or moldy.

Salt should be kept before the flock

where the flock is not on pasture the rough feed should be placed some distance from the sheds or barn so that the flock will get exercise in going to and from their feed.

Care must always be taken that the pregnant ewes are not chased by dogs or jammed through narrow gates or doors, as any rough treatment will cause a large per cent. of loss of lambs.

small, thin kamb nearly always sells The shepherd's problems for the as a cull on the market. There is lambing season are very largely solved if he has brought the ewe flock to the usually a large supply of culls, with little demand; consequently culls albeginning of the season in good flesh and thrifty condition.

> Wholesome enjoyment is one of the best stimulants we can take and it is one of the few that is essential to our well-being.

The impressions one gets in early life are the most influential. Are you helping your children to get the right



Fantford Concret Mixer aves \$3 to \$19 g -breaking job think of the is THE BEST abor cost. The "Brantford" is ALUE FARM-SIZE MIXER Many founda-Many farm-ertilizar, etc. on skids or thout engine troughs, silos, et Limilet. Coold Shapley

Protect the house with a matchbox.

A few cats save much grain and a great deal of annoyance.

Irrigated Farms in Southern Alberta

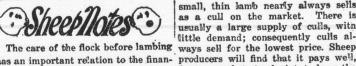
Soutnern Angerta In the Famous Yauxhall District Bow Hives Trigation Froject An especially good location for mixed farming and dairying. Splendid op-portunity for young men now living in districts where good land cannot be bought at reasonable prices. THIS IS NOT FIONEERNING, the first 10,000 acres now ready for first 10,000 acres now ready for settlement; maximum distance from railroad, seven miles. Good roads, telephones and schools. Easy pay-ments, extending over 18 years. This is the Best Land Buy in Alberts Write for further information to: COMPANY, LIMITED Medicine Hat, Abberts



Don't wait for someone to be in pain to get Kendall's Spavin Treatment in the

For all external hurts and pains for all muscular troubles.

Kendall's Spavin Treatment makes good KENASTON, Sask., December 8th, 1921 "Please send me one copy of your TERATISE ON THE SEE. I have used your Kendal's Spavin Cure for over



A great many farmers are now as a pasture crop for hogs. If prop-

tory nearby, where the treatment could be done. The bags of grain are placed in water and live steam turned in until the temperature is raised to 127 deg. F. Enough steam is then run in to maintain a temperature of 124

information about Hubam clover.

must white clover which ripens the injured until the heavy frosts kill all seed the same year that it was sown. growth. This was discovered in 1916 by Professor Hughes, Iowa Agricultural Exp. Sta. It has been largely heralded through the eastern half of this continent and has been grown extensively in some sections. Like all sweet clover it grows very rank and has to be cut early in order to make fairly good hay. On very poor sandy or gravelly land or on hilly land there may be reason for growing sweet clover, but speaking generally, other

R. W.:--Please tell no the question of optimized and the proposition. pasture.

Answer:-For annual pasture the take on enough weight to pay for the Ontario Agricultural College recom- feeding. Rhode Island Reds are also mends 80 pounds of seed per acre good for this purpose, in fact, any made up as follows:

Oats 51 pounds, sorghum 30 pounds, red clover 7 pounds. If this is sown as early in the spring as the ground will work, it should be ready to pasture by the middle of June. For permanent pasture mixture you may larger birds.

lence in farming but not enough to roosters. venture out on my own responsibility. Ren't there some way by which I can learn more about it before I undertake farming again? Answer:-Your best way would be

to get in touch with the Ontario Agricultural College. They could direct you to some leading practical farmer where you would be able to learn practical points about the management of farms.

A. A. I have a field of alfalfa but a rather poor stand. It did not get any lime when seed was sown. How would it be to apply lime next a rest whenever it runs down.



Poultry raisers who produce capon for market should use judgment as to the breed of chickens used for this purpose. Leghorns and similar small breeds, which are essentially egg layclover, but speaking scheduler, hay. ers, should not be used, as they do need to be used, as they do need to be used, as they do need to be used. ers, should not be used, as they do not R. W .:- Please tell me the quickest of spring roosters to make it a pay-

large sized breeds are the best.

When consumers buy capons they generally want birds which will weigh from seven pounds up. Leghorn ca-pons do not reach this weight and they consume as much feed as the

choose alfalfa or a mixture of the othy and red clover. About 4 pounds seven cents per pound over the pro-of timothy, 2 pounds alsike and 6 of spring roosters, while as before mentioned, the Leghorn capons bring the same price as the young

The demand for capons is growing every year and there is always a mar-ket for them in the late winter and spring months when spring roosters become too coarse for roasting, but the producer should start with the right kind of stock.

Speed the hogs with feed.

Says Sam: All work and no play makes Jack a city boy.

The clocks set an example to many a man in town. It never fails to take

which to fill the corn crib or the silo the temperature is always above the next autumn than many days of freezing and generally maintained at hard work in the field during the sea-son of growth. With the seed care-fully tested and proven capable of After eight or ten days examine the producing strong vigorous plants, the germination for results, lift off the risk is removed from the most import ant of all the factors involved in roll back the cloth that is in direct contact with the corn. Take note of

corn growing.

Various methods of making a germ- the germination of the kernels in each ination test have been devised and numbered square, and save or discard different measures of success in op- according to the strength of germinaeration obtained. The elimination tion. Every ear that has given dead,

that follows experience has caused a mouldy or weak germinating kernels discard of many methods and centred should be thrown into the feed bin on the usefulness and simplicity of the and only those showing great vigor

Sawdust Corn Germination Box. This and freedom from mould should be method requires a minimum of atten-tion, it is easy to prepare and it is sprout and roots should be at least sure. The box used as a container two inches long. The box, sawdust for the sawdust can be of any con- and cloth should not be used a second venient size, easy to handle or stack time without thorough scalding; this up. Boxes 30x30 inches and 5 inches is done to destroy fungus spores that deep are very eathsfactory and are may be present. The outside two harge enough to test the seed ears re-inches of space should not be used, as quired to plant five or six acres. The it may dry out and check the germinaseed bed is prepared as follows: Pack tion of any seed placed near the edge moist sawdust to the depth of three of the box-



en years and found it one of the best liniments I has r used for all kinds of sores. (Signed) M. ZEMAN." Get a bottle at your druggist's today. Regular for Horse Trealment—Refined for Human use. DR. B. J. KENDALL COMPANY, Enosburg Falls, Vt., U.S.A. KENDALL SPAVIN TREATMENT

The Canadian Pacific Railway WILL FIND Farm Help for **Eastern Farmers**

TO BE OF SERVICE to Eastern Canadian Farmers and help to meet their needs in securing competent farm help, the Canadian Pacific Railway is prepared to utilize its widespread organization to provide such help from a number of countries.

The CANADIAN PACIFIC Railway will now receive and arrange applications for male and female farm help to be supplied from Britain, Belgium, Holland, Denmark, Switzerland and Norway, in which countries the Company has representatives who have farmed are familiar with Eastern Canadian conditions and who are now in with such men and women ready and anxious to come to Canada.

THE GOVERNMENTS of the countries above mentioned have expressed their willingness to aid the immigration of this class of their peoples. In order to fill such applications satisfactorily and bring the help to the farmer at the proper tmo and with a clear understanding of the require-ments and obligations of each, a printed "Application for Help" form has been prepared which can be obtained from any of the offices listed below.

Company will make no charge to the farmer for this service nor will armer be required to make any cash advance whatsoever towards the ling expanses of his help to the nearest railway station. The informa-necessarily asked for in these application forms, which will be held in st confidence, covers the following points:--the kind of help wanted--or formal-married or unmarried; data required and for how long j allty desired; monthly wages offered; kind of work offered, etc.

MONTERAL, P.Q. J. Dougall, Gen. Agricultural Agent, U.P.E. C. La Das Norwood, Land Agent, U.P.R. EKNTVILLE, N.S.-Geo. E. Graham, Gen. Mgr., Dominion Atlantic Er.

Department of Colonization and Development Canadian Pacific Railway L S. DENNIS, Chief Commissioner, Montreal.