

FOR THE FARMER IN THE COUNTRY

CULTIVATION OF GROWING CROPS REQUIRES REASONABLE CARE

Roots Should Not be Disturbed—Use of a Depth Guide is Recommended.

The cultivation of crops requires reasonable care. There is seldom gain from deep cultivation after the crop has been planted. Such cultivation is necessary in preparing the soil for all seed crops, but if not done then, later cultivation will not make up for the neglect. Summer cultivation should be shallow; sufficient to destroy weeds and produce a fine surface mulch one to two inches deep. It may be possible and is then advisable, to narrow the cultivator and cultivate deeply the space between the rows not occupied by growing roots. It should be remembered, however, that these roots penetrate the soil towards the centre of the row very rapidly and frequent observations are necessary to determine whether the feeding roots are being disturbed or destroyed by cultivation, as so very often happens. The soil below the loose surface soil covering is where soil bacteria are most active, and consequently where the most plant food is being liberated, as a result of which roots will be found in this soil area in greater abundance than anywhere else.

Root Pruning Not Good.

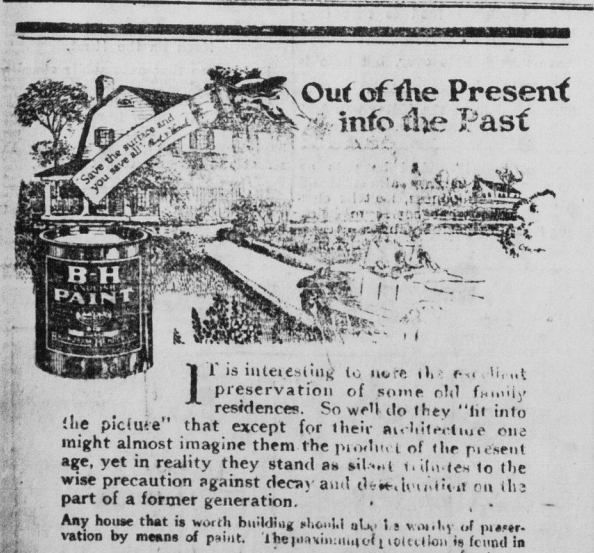
Although there seems to be no good reason for using care in selection of seed, preparation of soil and fertilizing to grow a good plant—only to destroy the roots as soon as they have grown—yet this is what is very often done. Root pruning has so far never been shown to be desirable and, as the root development is a big factor in crop yields, the better chance they have for development without being disturbed the better use they can make of the plant food the soil contains. The object at this time is to point out the desirability of surface tillage by shallow surface cultivation and warn against deep culture in the area occupied by the growing plant. Another reason why roots should not be disturbed more than possible is because injured roots may not be able to take up the full moisture required and wilting may result.

GROUND YOUR WIRE FENCE.

In the summer time when the thunder caps appear in the sky and the storm sweeps down on the farm, the farmer thinks less of his safety than he does of his live stock. When the stock is in the field during the storm it may happen that the animals drift against the wire fence, which may be heavily charged with electricity, and are shocked to death. The ordinary fence built on wooden posts should be grounded every sixth post by means of a wire six or eight feet long twisted around all of the line wires of the fence and then secured in a hole in the ground. The hole should be dug deep enough so that the wire comes in contact with moist earth. A fence so grounded offers no danger to live stock during the thunderstorm. The wire fence built on galvanized steel fence posts is already grounded at every post and no thunderstorm with its discharge of lightning can injure the cattle enclosed by such a fence.

KEEP ROOTS DAMP.

Every precaution should be taken to prevent the roots of fruit trees becoming dry between the time they are received and when they are planted.



Out of the Present into the Past

It is interesting to note the excellent preservation of some old family residences. So well do they "fit into the picture" that except for their architecture one might almost imagine them the product of the present age, yet in reality they stand as silent witnesses to the wise precaution against decay and deterioration in this part of a former generation.

Any house that is worth building should also be worthy of preservation by means of paint. The preservation of a picture is found in the picture.

B-H PAINT

The formula (70% Brandram's Genuine B-H White Lead and 30% Pure White Zinc) produces a paint with a fine, smooth surface that does not crack, chip or peel and a surface protecting film that will defy the elements.

Investigate B-H "English" paint—you'll find most Canadians use it because of its economy and lasting quality. You are convinced adherent to this brand that goes so far and lasts so long.

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BRANDRAM-HENDERSON

Bees Will Swarm Early This Year

Control Necessary to Ensure Maximum Honey Crop.

Many, who have bees, find the question of swarm control and the securing of a maximum crop of honey, without undue manipulation, a very serious problem. This season there will be an excess of early swarms, owing to the fact that the bees in many locations are approximately a month in advance in condition, unless the beekeepers complete the following manipulations. This means with many that swarms will be common during the latter part of fruit bloom and dandelion blossoming period. If, however, the following directions are carried out (and they require very little time), then the beekeepers will have stronger colonies when the main honey flow begins, besides which one can make his increase or artificial swarm at the time the beekeepers wishes to, rather than at the time the bees would like to do this themselves.

Directly fruit trees blossom or dandelion flowers are plentiful, give each reasonably strong colony a second hive-body, containing drawn combs or full sheets of foundation. If the colony is very strong and the weather fine, one week after the second brood-chamber was given, place an excluder on top of this and add a third hive-body as a super. Leave the colony either in the 2 or 3 hive-bodies until the clover flow begins in June. Directly it is noticed that clover is yielding, manipulate as follows: If the colony has two brood-chambers and a super, remove the super and then fill the second or top chamber with combs containing eggs and youngest brood. Place the remaining combs and queen in the first or lower brood-chamber and place a queen excluder over the single brood-chamber which now contains the queen and the surplus brood which would not go in the second or upper brood-chamber. On top of the queen-excluder place an empty super containing drawn combs or comb foundation. If a super has been used on the double brood-chamber, place this on the empty super and on top of either the one or two supers, as the case may be, place the second brood-chamber, now containing the queen and youngest brood. Leave the colony this way until the morning of the tenth day. If increase is wanted, this top brood-chamber can be removed, placed on a bottom board in a new location and the entrance reduced so that only a few bees can enter and leave at one time. All the worker brood will be sealed and there will be ripe queen cells in this brood-chamber, unless the queen has been stung. The brood on top of this increase should be examined in from two or three weeks to be sure the young queen is mated. A queen-cell or queen-cells are found, a queen-cell or queen-cells must be given and another examined. If no increase is desired, destroy all queen-cells in top brood-chamber, and then leave the seventh day in place on top of the super, and when the brood has emerged the bees will use it as a super.

W. S. BLAIR,
Experimental Station,
Kentville, N. S.

POULTRY NOTES.

The chickens should always be waiting and ready when the next feeding time comes. Probably the greatest drawback to the improvement of farm flocks today is the fact that mongrel and cross-bred plants will pay birds with the best of the flock. Healthy and Denmark, Canada, Egypt and the United States were the chief sources of Great Britain's supply of eggs during the past year. There are always some crippled chicks from the hatches. These should be killed rather than permitted to live to be picked out by the remainder of the flock. Healthy and sound chicks have no use for cripples and it is only cruel to permit the deformed stock to live.

Only the many varieties of Wyandottes, the white is by far the most largely represented in Canada and the United States, and it is with the white variety that greatest progress has been made in developing egg laying strains.

Stock turned into orchards are not liable to injure trees if provided with an ample supply of water. If they do bother the trees, however, provide protection by removing the animals from the area.

Plow Orchard Soon To Save Moisture

Early Cultivation Favorable to a Good Set of Fruit.

If a clover crop has been left over the winter in an orchard, it should not be a hindrance to growth in the spring until there is a good set of fruit. Plough under, especially in districts where draughts occur, but the work should be done as soon as it is dry enough to work, but not for the plants to grow up; thus, much moisture which would otherwise be lost by the plants, will be saved, and the chance of suffering from drought lessened.

A good setting of fruit depends very much on an ample supply of moisture in the ground. In the spring, setting time, and if there should be a drought after a heavy crop of clover or vetch has been ploughed under late in the spring, conditions will not be at all favorable. After the land has been ploughed, it should be kept well harrowed during the early part of the season, and to conserve the moisture, as it has been found that there is a rapid decrease of moisture unless the surface soil is kept close. Early cultivation is desirable, also, because it is important to get the soil warmed up as soon as possible by letting the air in, and so making conditions favorable for growth early in the season. The greater activity in growth there is in the early part of the season, the more likely is there to be a good set of fruit, especially on the surface of the soil, where the flow of sap through the fruit spurs is not as free as in younger trees, and, if there are drying winds and a drought, there may be a corresponding decrease in the fruit. An application of nitrogen on some soils has been found very useful in promoting growth, activity of growth in the early part of the season, and a better ensuring a setting of fruit. W. T. Macoun, Dominion Horticulturist.

COOL MILK TO KEEP.

The warmer the weather, the greater care must be taken in handling milk from the cooling tank. Immediately after the milk comes from the cows, cool it to 45 or 50 degrees, and keep it below the latter temperature until sold.

TIME TO PLAN FOR FILLING OF THE SILO

Plant Enough Corn and Build New Storage Right Size for Herd.

DIAMETER MUST BE FIGURED ON Silage Must be Fed Fast Enough to Prevent it Spoiling.

Provided weather conditions are suitable, next week will probably see more corn planted in Canada than any other week of the season. In earlier days or before the ten-day day and holidays became so generally recognized on farms, the 24th of May was corn-planting day wherever soil and weather were favorable. The number of silage silos, however, the development of early maturing varieties of corn for silage has resulted in putting off the date of planting until the early June in many cases and the seasons for the past few years have not been any too favorable to early planting.

Planting season is the time when the stock farmer should arrange to have sufficient land in corn silted for filling his silo and this in most cases means providing sufficient corn acreage. If there is any doubt as to the acreage needed, it is best to allow a margin for safety, remembering that the season may cut down the yield of corn. If there is too much corn to go into the silo, the excess can be cut dry for fodder, or if the excess is regarded early some of the corn may be used for silage at the time when pastures are failing. The amount of silage that may be obtained from an acre of land varies from 4 to 20 tons, and a fair allowance on ordinary land is 8 tons per acre.

If the silo already on the farm is of the right dimensions to hold feed for the herd, figuring out the necessary corn acreage is an easy matter, but if additional silo space is needed, it is as well to have the new silo of just the right size, especially as regards diameter. The proper diameter of the silo should be determined by the quantity of silage to be fed daily. The silage should be fed out fast enough to remove it from the top of the silo at the rate of 12 to 15 tons per day. The warmer the weather the more silage must be removed from the surface daily to prevent it from becoming sour. The diameter of the silo is safer to figure on removing 2 inches daily than any smaller amount.

A common error in building is to make the diameter too large for the size of the herd. The weight of the silage in the silo varies according to the pressure to which it is subjected, but in a silo 30 feet high the weight per cubic foot, averages 12 to 15 tons. So, by knowing the quantity of silage to be fed daily it is possible to estimate what the diameter of the silo should be to permit the removal of a certain number of inches each day.

A 900-pound cow ordinarily consumes 30 pounds of silage a day, and 1,200 pounds of silage a day. Yearlings eat about one-half as much as mature animals; fattening cattle, 25 to 35 pounds for each 1,000 pounds live weight.

Crop Conditions Good In The West

Acreage About the Same as Last Year—Wheat Well Above Ground.

Winnipeg, May 17.—Reports from 239 points in the Prairie Provinces indicate that crop report conditions on the prairie are generally satisfactory, though the season is generally not so good as last year, according to the crop report for Manitoba Free Press.

The acreage in wheat is, contrary to expectation, little if at all less than last year when the acreage seeded was a little over sixteen million. By province it was practically unchanged, Saskatchewan slightly less, and Alberta with an increase sufficient to offset the shrinkage in Saskatchewan.

The winds which were reported to be doing such havoc in Saskatchewan have evidently been exaggerated and the amount of re-seeding to be done is relatively small. The supply of moisture is abundant, only 3 or 4 points reporting that they would be better for rain.

Fully 50 per cent of the wheat crop is in good moist bed and generally well cultivated. About 50 per cent of the wheat in the West as a whole of the season is generally well cultivated, though the season is generally not so good as last year, according to the crop report for Manitoba Free Press. The season is generally not so good as last year, according to the crop report for Manitoba Free Press.

Glimpse At Canada's Agricultural Wealth

Report of Dominion Minister of Agriculture Shows Progress Made by Farmers.

A table given in the report of the Dominion Minister of Agriculture for the year ending March 31, 1920, places the value of all the field crops in that year at \$1,812,915,500, and the value of dairy products at \$247,352,252. The number of horses in the country is given as 2,667,369, the number of milch cows as 3,548,457, other cattle as 5,326,874, sheep as 3,421,988, and swine as 3,040,070. Except in swine these numbers are slightly in advance of those given in the previous year and the 1919 figures are numerous than in 1915, 1914, and 1917. A noteworthy statement is that in three years of the war the Imperial War Office was supplied under the supervision of the Dairy Branch of the Department with hay, oats and flour to the value of \$38,631,588, representing 431,650 tons of hay, 78,495,221 bushels of oats, and 284,182,050 pounds of flour, for which approximately 24,000,000 bushels of wheat were required.

Another statement of special interest is that the live stock that came under the supervision of the officers of the Markets and Intelligence Division of the Live Stock Branch, during the year was in excess of 2,600,000 head, valued at over \$200,000,000. During the year, 3,783,138 pounds of wool were graded by the branch for export to the United Kingdom and other foreign markets. The dairy business is shown to have developed greatly, especially in the Prairie Provinces, where the output of creamery butter has increased in a decade from 5,478,304 lbs. to 35,354,711 lbs. The number of publications issued during the year by the Publication Branch of the Department was 2,400,000, including 200,000 market reports. A vast variety of information is given in the departmental report, which details in comprehensive and digested way, the operation during the year of all the experimental farms and stations and all the branches and divisions.

New Sweet Clover Emergency Crop

Annual Variety Useful for Filling Gaps in Standard Hay Acreage.

It has been determined that sweet clover, which grows luxuriantly along the roadsides and out-of-the-way places, and which is grown in some sections as a forage crop, has a strain which is annual. The annual sweet clover occasionally appears in patches of the more common biennial form, either as single stems or in small groups. Seed of the annual has been separated and in recent years it has been propagated. The nature of the new variety is such as to indicate that it may have important possibilities. Probably its chief use will be as an emergency crop. When a stand of clover has been winter killed, or when for any reason a farmer finds that his clover is not doing well, this variety can be seeded during the spring and provided late and the proper bacteria are present, yield a good hay crop. Where rainfall is sufficient, it may be seeded even after winter harvest. It gives a good growth the first season and experiments have shown that it can be seeded with oats to be harvested after the grain is cut. It grows rapidly, and for this reason will keep ahead of weeds.

The annual is smaller and more woody root than the biennial form and crown or resting buds are not formed. The stems, branches, leaves, and roots, either as single stems or in small groups, are easily cut and during the season of regrowth the plant grows more rapidly. The fruit is a long, slender, cylindrical seed pod, which is harvested in August or September. Seed of the annual is scarce and high priced, but it can be obtained from seed of the ordinary biennial, should be purchased with caution.

STANDARD BREED IS BEST

Here are five reasons given by specialists for keeping standard-bred poultry.

Standard-bred poultry is more uniform in size, type and color. Standard-bred poultry is more attractive in appearance and appeals more strongly to purchasers of stock and eggs. Standard-bred poultry offers a greater combination of practical and useful qualities suitable to the needs of the farmer and poultry keeper. The products of standard-bred fowls are more uniform in quality, are in greater demand, and bring better prices.

SOME ADDITIONAL GRASSES.

Orchard grass and meadow fescue are grasses recommended by the Dominion Experimental Farms Department as additions to the "standard" and often stereotyped mixture of "clover and timothy," for producing hay crops on Canadian farms. Other grasses that are at present but little appreciated in Canada, but which may be advantageously put in as bottom grasses in hay pastures in pastured Kentucky blue grass, suitable especially for foamy soil; sheep's fescue and the red or crested fescue, for light land; red top, for wet conditions, and the crested dog's tail, also for wet spots.

BIG PROFITS IN TURKEYS AS A SIDE LINE FOR FARMERS

Free Range However is Essential to Success With Class of Poultry.

When the festive season of the coming Winter arrives, and the price of turkeys is almost beyond the price of the average individual, and this is certain to prove injurious, and cannot help thinking that more of this type of fowl ought to be produced. The turkey flocks of Canada are not being made to keep pace with the increase of population. This is no doubt due to a great extent to the difficulties encountered in the raising of young turkeys by those to whom this phase of the poultry business is a novelty.

To many people, turkeys have been a great disappointment. Many have failed because they have tried to raise turkeys in yards like those provided for other fowl. Others have killed their birds by overfeeding, allowing them to become infested with vermin, owing to dirty quarters, or lack of examination and proper care. The mature birds are very hardy, and stand improper conditions very well, but the young pouls are very tender and must be treated right, if success is wished for.

Give Pouls Free Range.

It is absolutely necessary to give the pouls free range, to feed them well without overdoing it, and to keep them free from vermin. It has been found by experience that to be successful year after year, it is necessary to have almost unlimited range, for in time land that has been used as a range, becomes "turkey sick" and a range of new ground must be provided. Where turkeys are hatched in the natural way, the usual thing is to keep the hen cooped for four or five weeks. A slatted front coop should be provided, giving the young turkeys a chance to run out, and they will cover a sufficiently wide range for a few weeks. Care must be taken to move the coop to a fresh stand each morning, or dead turkeys will cause discouragement. Nothing will be more fatal to young turkeys than roosting over night in bethelous places.

The cooping system avoids mortality from dampness, because the young birds will run home to the mother when it begins to rain. The pouls will gradually become accustomed to moving over a larger area, which is the best interests of the flock. If the weather is pleasant at the end of five weeks, the hen must be put with them, in which case, the birds may be allowed absolute freedom.

Calfhood Best Time To Dehorn

Cool Weather Best for Operating on Older Cattle.

The Saskatchewan Department of Agriculture gives Western farmers the following advice when and how to dehorn their commercial cattle:

"All calves should be dehorned on one day to two weeks old with caustic potash. This operation is simple. When the calf is three to four days old, slip the hair where the rudimentary horns or buttons later appear, and with a stick of caustic acid, wrapped at one end to protect fingers rub over the button until the skin becomes a little inflamed. A scab will appear in a few days, and further growth of the horn will cease. It is advisable to rub oil around the button to prevent the caustic acid spreading over too large an area.

"On two-year-olds and over use a dehorning clipper or saw. Be sure and dehorn close to the skull to prevent further growth of the horn, as stubs make cattle look staggery. "Dehorning should be done in the Spring or Fall, or any time, providing the weather is moderately cool. "When purchasing feeders on the central market, it will pay you to have them dehorned before leaving the yards."

The circular adds: "Thousands of dollars are lost annually by Saskatchewan stock-raisers alone owing to the loss of weight caused by horned cattle. Dehorned cattle in carload lots sell from fifty cents to one dollar per hundred pounds higher than equally good horned cattle."

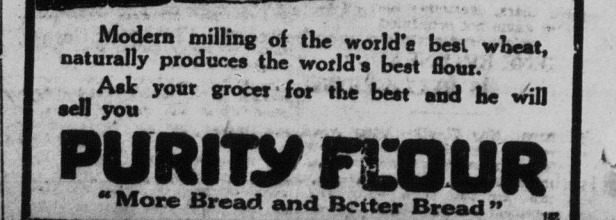


THE HUNTER knows the value of MINARD'S ELLISON Gray, a well known Nova Scotia guide, writes:

"I have used MINARD'S LINIMENT in my horse, for years and consider it the best thing I have ever used. It cures all kinds of horse ailments, such as sore shins, cuts, bruises, etc., which one is sure to have in a horse's life. It is a great remedy for all horse ailments, and I would not be without it. MINARD'S LINIMENT is a great remedy for all horse ailments, and I would not be without it."

MINARD'S LINIMENT

YARMOUTH, N.S.



Modern milling of the world's best wheat, naturally produces the world's best flour.

Ask your grocer for the best and he will sell you

PURITY FLOUR

"More Bread and Better Bread"

St. Peter's Team From The

Fifteen Hundred Points—Pirates Ball Score 6

Fifteen hundred points in six innings gave the Pirates a victory over the St. Peter's team. The Pirates scored 6 runs, 10 hits, and 6 errors. The St. Peter's team scored 0 runs, 0 hits, and 0 errors. The following is a score and summary of the game:

Team	Runs	Hits	Errors
Pirates	6	10	6
St. Peter's	0	0	0

Baseball Game With Big

Team	Runs	Hits	Errors
Pirates	6	10	6
St. Peter's	0	0	0

USE NITRATE OF SODA.

Nitrate of Soda supplies nitrogen in a readily available form and because this is one of the most valuable of the nitrogen supplying fertilizers. In the Spring, nitrates in the soil may be very deficient because of their depletion by drainage from the soil, caused by Fall and early Spring rains. Liberation of nitrogen in the humus cannot take place until the soil warms and the bacteria become active; hence the suitability of Nitrate of Soda for furnishing available nitrogen early.

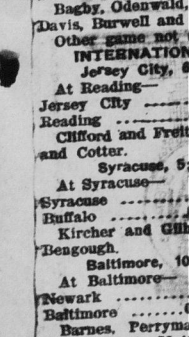
THE HUNTER

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YARMOUTH, N.S.



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PURITY FLOUR

"More Bread and Better Bread"

Montreal, May 28.—The St. Peter's team, which was defeated by the Pirates in a game last evening, scored 0 runs, 0 hits, and 0 errors. The Pirates scored 6 runs, 10 hits, and 6 errors. The following is a score and summary of the game: